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ATMOSPHERIC STRUCTURE, WHITE SANDS  
MISSILE RANGE, NEW MEXICO. PART I.  
SURFACE WIND, CLOUD COVER, VISIBILITY

Marjorie M. Hoidale, et al

Army Electronics Command  
White Sands Missile Range, New Mexico

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**ATMOSPHERIC STRUCTURE**  
**WHITE SANDS MISSILE RANGE, NEW MEXICO**

**PART I**  
**SURFACE WIND, CLOUD COVER, VISIBILITY**

**By**  
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**DR-818**

**DA Task 1T665702D127-02**

**ATMOSPHERIC SCIENCES LABORATORY**  
**WHITE SANDS MISSILE RANGE, NEW MEXICO**

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## FOREWORD

This report is a revision of Technical Report ECOM-5202 published under the same title in July 1968. The revision up-dates the original records to cover the period from 1951 through 1973.



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  A statistical analysis of surface wind velocity, sky conditions, and visibility is presented for "A" Station, White Sands Missile Range, New Mexico. This climatological information is based on the period of observation from 1951-1973.		

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## INTRODUCTION

A detailed statistical analysis of sky, visibility, and surface wind conditions is often desirable when projects must schedule missions months in advance of the actual firing dates. This is especially true where an unguided rocket, sensitive to the low-level wind effect, is being fired or where optics are requisite for a successful mission. Scheduling problems of this type require a detailed knowledge of the frequency of occurrence of the critical meteorological conditions classified by months and hours, the extreme conditions that can be expected, and mean values classified by months and hours where a diurnal trend can possibly be detected.

It must be realized, however, that the data presented in this type of statistical analysis are merely an aid and not the final or complete answer to scheduling a mission successfully from the meteorological standpoint. Averages or means do not give information on the random variability of monthly or hourly values or long-term climatic changes.

Observations of the sky condition and visibility were taken at "A" Station, latitude  $32^{\circ}22'42''$  North and longitude  $106^{\circ}28'47''$  West. (See range map, Page 2.) Wind measurements were obtained from a remote sensor located approximately one-half mile to the west. The anemometer is on a 13-foot mast with an elevation of 4304.05 feet at the sensing point. Prior to about May 1955, measurements were taken from a 12-foot mast on the roof of "A" Station. The climatological information is based on the period of observation from 1951-1973.

A statistical analysis of surface temperature, relative humidity, density, pressure, etc., appears in Part 2 in this series (1). A statistical analysis of upper air data at various test sites on the Range appears in Part 3 in the series (2-7).



FIGURE 1. MAP OF WHITE SANDS MISSILE RANGE

## EXPLANATION OF TERMS

1. Surface Wind
  - a. Wind directions are given as the true direction from which the wind is blowing.
  - b. Wind speeds are measured in knots (nautical miles per hour).
  - c. Wind gusts are characterized by sudden, intermittent increases in speed, with at least 9 knots variation between peaks and lulls. The average time interval between peaks and lulls usually should not exceed 20 seconds.
  - d. Maximum sustained wind speeds are a one-minute average of the observed wind speed.
2. Sky Condition
  - a. Clear denotes no clouds, or less than 1/10 of sky cover.
  - b. Scattered denotes 1/10 through 5/10 of the sky covered by clouds.
  - c. Broken denotes 6/10 through 9/10 of the sky covered by clouds.
  - d. Overcast denotes greater than 9/10 or the entire sky covered by clouds.
3. The ceiling is the height ascribed to:
  - a. The lowest layer of clouds or obscuring phenomena aloft that is reported as broken or overcast and not classified as thin, or,
  - b. Surface-based obscuring phenomena (obscuration) not classified as partial.

**SECTION I**

**SURFACE WIND DATA**

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TABLE I

MONTHLY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED IN PERCENT  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH	WIND (KNOTS)			
	0-5	6-14	15-25	ABOVE 25
JAN	65	26	8	1
FEB	57	32	10	1
MAR	43	41	14	1
APR	36	45	17	2
MAY	39	50	10	0
JUN	41	51	7	0
JUL	58	40	2	0
AUG	64	35	2	0
SEP	65	33	2	0
OCT	65	32	4	0
NOV	62	30	7	1
DEC	65	25	9	1

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF JANUARY

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																									
64	63	68	66	71	73	73	76	77	74	68	65	64	58	53	55	53	61	66	63	63	62	63	64		
WIND 6-14 KNOTS																									
26	27	23	25	21	19	19	18	17	20	25	26	28	32	39	35	37	29	23	23	25	27	27	26		
WIND 15-25 KNOTS																									
9	8	7	7	7	7	7	4	5	6	6	7	7	9	7	9	9	9	9	10	11	9	10	9	9	
WIND ABOVE 25 KNOTS																									
2	2	2	2	2	1	1	1	1	1	1	1	2	2	1	2	2	1	1	1	2	2	1	2	1	

## TOTAL OBSERVATIONS

594 598 598 598 598 599 600 602 601 602 601 602 599 599 601 600 599 583 577 575 577 576 576 577

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
57	59	63	63	64	65	67	70	70	69	66	62	59	56	47	42	42	42	47	55	54	55	55	55	58
WIND 6-14 KNOTS																								
33	32	26	28	27	25	25	23	23	24	24	29	30	32	40	43	44	45	39	32	34	33	31	35	32
WIND 15-25 KNOTS																								
9	9	10	9	7	9	8	7	7	7	9	9	11	11	11	13	14	13	14	12	10	11	13	9	9
WIND ABOVE 25 KNOTS																								
1	1	1	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	3	2	1	2	1

TOTAL OBSERVATIONS

545 546 545 545 547 544 545 545 545 545 545 545 547 546 546 546 547 547 532 528 527 528 528 528 526

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF MARCH

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
∞	46	46	46	50	53	56	58	62	58	52	46	41	33	32	27	25	26	31	40	44	42	40	42	45
WIND 6-14 KNOTS																								
39	39	39	37	35	34	32	29	27	32	36	40	45	52	51	56	58	55	50	43	40	41	42	41	39
WIND 15-25 KNOTS																								
15	14	15	14	12	11	13	10	10	10	12	13	11	13	16	15	16	18	18	15	14	16	17	16	15
WIND ABOVE 25 KNOTS																								
1	1	2	1	1	1	1	0	1	0	1	1	2	1	1	1	1	1	2	2	2	1	2	1	1

## TOTAL OBSERVATIONS

596 596 596 597 597 597 595 596 595 595 596 596 594 597 595 595 595 597 575 568 570 571 572 470 570

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF APRIL

WIND	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	40	42	46	47	51	55	59	57	48	42	36	29	26	19	19	16	18	19	26	34	33	31	32	33
WIND 6-14 KNOTS	41	39	35	38	34	32	29	31	39	43	48	54	55	59	60	61	57	57	50	43	45	46	45	46
WIND 15-25 KNOTS	18	18	17	15	15	13	11	12	11	13	14	16	17	20	18	21	23	22	22	21	20	21	22	20
WIND ABOVE 25 KNOTS	2	2	1	1	1	0	1	1	2	2	2	1	2	2	2	2	3	2	2	2	2	1	1	1

TOTAL OBSERVATIONS

574 575 575 574 575 574 575 574 575 574 574 573 574 574 575 574 573 574 573 574 535 532 531 532 531 531 531

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS		41	44	49	52	54	60	65	63	55	48	40	30	29	20	22	20	20	22	28	36	38	37	35	38
WIND 6-14 KNOTS		40	44	41	41	39	35	28	29	38	44	51	61	61	70	65	66	67	63	58	52	49	51	54	49
WIND 15-25 KNOTS		11	12	9	7	6	5	6	8	7	8	8	9	10	9	12	14	13	15	14	11	12	11	11	12
WIND ABOVE 25 KNOTS		1	1	1	1	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	1	1	1	0	0

TOTAL OBSERVATIONS

579 579 580 580 593 591 591 592 590 592 591 591 591 591 591 591 590 591 551 549 549 535 533 534 533

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
30	42	48	53	62	65	72	65	65	58	49	42	38	34	27	21	25	29	24	27	32	36	33	32	33
WIND 6-14 KNOTS																								
50	47	44	43	35	32	26	32	32	39	46	53	58	61	67	73	66	63	65	60	57	54	55	56	53
WIND 15-25 KNOTS																								
11	11	7	4	3	3	2	2	3	3	5	5	4	5	6	5	9	8	11	12	10	10	11	11	13
WIND ABOVE 25 KNOTS																								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

516 537 536 539 569 568 566 567 565 567 566 568 569 567 567 566 565 568 552 529 527 498 498 497 499

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																									
12	57	60	71	78	85	87	86	88	88	79	70	63	57	52	43	41	35	30	37	37	42	49	47	48	51
WIND 6-14 KNOTS																									
41	37	27	22	15	13	14	14	12	12	21	29	36	41	47	55	56	62	65	58	59	54	48	49	48	44
WIND 15-25 KNOTS																									
2	3	2	1	0	0	0	0	0	0	0	0	1	1	1	2	3	4	5	5	4	4	3	4	4	4
WIND ABOVE 25 KNOTS																									
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

555 581 581 581 592 591 590 590 589 590 590 590 590 592 592 590 590 591 574 549 547 537 539 539 538



TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
WIND 0-5 KNOTS																										
66	72	75	81	84	86	87	89	89	85	74	69	64	55	47	42	38	38	38	40	42	55	59	57	58	60	
WIND 6-14 KNOTS																										
31	28	24	17	15	14	13	11	15	25	31	35	44	52	56	59	59	58	56	58	42	38	40	39	39	39	
WIND 15-25 KNOTS																										
3	1	2	2	1	0	0	1	0	1	1	1	1	1	2	3	3	3	3	2	2	3	2	3	3	1	
WIND ABOVE 25 KNOTS																										
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL OBSERVATIONS																										

581 591 591 590 591 589 587 590 590 590 589 591 590 591 589 590 590 572 560 560 559 560 560 558

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
67	70	77	79	82	85	85	89	84	76	68	62	53	48	43	43	42	43	48	58	63	61	58	64	63
WIND 6-14 KNOTS																								
30	29	21	20	17	14	14	10	16	24	31	37	45	51	55	56	56	49	40	35	37	39	33	33	34
WIND 15-25 KNOTS																								
2	1	1	1	0	1	1	1	1	0	1	1	2	2	1	2	1	2	4	3	3	2	3	3	3
WIND ABOVE 25 KNOTS																								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

571 569 567 570 570 569 569 567 567 567 568 568 569 569 570 569 567 569 559 551 553 551 550 552 552

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 6-14 KNOTS	63	66	70	71	73	73	78	82	76	72	65	60	54	54	46	48	51	61	68	68	61	62	60	64
WIND 15-25 KNOTS	32	30	27	26	24	24	21	16	21	25	32	36	42	42	49	47	43	34	28	28	34	33	33	30
WIND ABOVE 25 KNOTS	5	3	3	3	2	2	1	2	3	3	3	4	4	4	5	5	5	4	4	4	5	4	5	5
TOTAL OBSERVATIONS	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1

TOTAL OBSERVATIONS

594 594 594 595 595 594 598 596 597 597 595 598 595 593 592 595 592 575 570 570 569 571 569 569

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
60	65	62	68	66	69	70	70	70	75	69	63	61	57	53	51	50	52	64	61	61	57	59	59	61
WIND 6-14 KNOTS																								
30	26	29	22	26	25	25	24	20	20	25	31	31	36	39	42	42	39	29	30	30	34	34	33	32
WIND 15-25 KNOTS																								
9	7	7	8	7	6	4	5	4	4	5	5	6	6	8	7	7	8	6	7	9	7	6	7	7
WIND ABOVE 25 KNOTS																								
1	2	2	2	1	1	1	1	1	2	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1
TOTAL OBSERVATIONS	566	570	569	570	570	569	569	567	567	569	569	567	567	567	566	567	566	559	547	547	546	546	546	547

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
17	45	47	48	49	49	70	73	72	74	69	69	65	61	60	55	55	59	66	62	58	60	60	61	66
WIND 6-14 KNOTS																								
25	23	21	22	23	21	19	20	20	18	21	22	25	20	29	33	32	30	23	26	29	20	28	29	25
WIND 15-25 KNOTS																								
10	9	10	7	7	7	6	7	7	7	9	8	8	9	9	11	11	11	11	12	12	11	9	9	8
WIND ABOVE 25 KNOTS																								
0	2	1	2	2	2	2	2	2	1	2	2	1	2	2	1	1	0	0	1	1	1	2	1	1

TOTAL OBSERVATIONS

500 502 503 503 503 502 503 504 504 500 506 505 505 506 505 506 504 506 506 568 565 565 563 561 564 563

TABLE 11

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF JANUARY

HOUR	CALM	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	OBSERVATIONS	HOUR
0	19	2	2	1	1	1	3	2	3	1	3	6	33	14	8	651	0
1	20	2	1	1	1	1	2	2	2	2	3	5	32	16	8	657	1
2	20	2	1	1	2	2	1	3	2	2	2	5	31	14	8	657	2
3	20	4	1	1	2	1	3	2	2	2	2	4	32	14	6	657	3
4	24	2	0	1	1	1	3	2	3	1	2	5	33	12	6	657	4
5	25	3	1	1	2	1	2	2	2	1	2	6	28	13	8	658	5
6	24	2	1	1	2	1	3	2	2	2	3	5	28	13	6	660	6
7	24	3	1	0	1	1	3	2	3	1	3	7	30	11	6	662	7
8	38	2	1	2	3	2	4	3	3	1	3	4	21	7	4	662	8
9	37	2	3	4	8	7	6	4	2	1	2	3	10	5	2	663	9
10	24	1	3	5	15	12	8	3	1	0	2	2	9	4	3	662	10
11	22	2	3	3	17	10	6	3	2	1	1	3	10	5	3	663	11
12	20	2	3	4	14	9	9	3	2	1	2	4	12	5	4	659	12
13	19	2	2	4	12	8	8	5	3	1	2	6	13	6	4	660	13
14	17	3	2	3	10	7	8	5	3	1	3	6	13	7	5	662	14
15	17	3	2	5	8	6	6	6	4	2	3	6	13	8	5	661	15
16	19	2	2	4	5	5	6	5	6	2	4	6	14	8	5	660	16
17	21	3	3	5	2	2	3	3	4	4	4	10	20	7	5	648	17
18	16	1	1	1	2	2	3	2	4	2	3	9	35	13	6	637	18
19	15	2	1	1	2	1	3	2	2	1	3	6	38	15	5	635	19
20	16	3	1	1	2	1	3	2	3	1	3	5	35	15	7	637	20
21	15	2	1	1	1	1	2	2	2	3	2	5	37	15	9	636	21
22	19	2	1	1	0	1	2	2	2	2	3	5	32	17	0	637	22
23	15	2	1	0	1	2	2	1	2	2	3	7	35	17	7	638	23

BY MONTH 21 2 2 2 2 5 4 3 3 2 3 5 25 11 6 2 15679

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	NW	NNW	OBSERVATIONS	HOUR	
0	14	2	1	0	1	1	1	3	3	2	1	3	5	32	14	9	603	0
1	16	3	1	1	0	1	1	3	2	3	1	2	4	32	15	10	604	1
2	18	2	0	0	1	1	1	2	3	3	1	3	6	30	14	8	603	2
3	19	3	1	1	1	1	1	2	4	1	1	1	6	28	17	8	603	3
4	21	2	1	1	0	1	1	2	3	1	1	2	6	30	14	7	604	4
5	20	4	0	1	1	2	1	3	3	2	1	1	6	30	15	6	605	5
6	23	2	1	1	1	2	1	2	2	2	1	2	6	28	14	8	603	6
7	23	3	1	1	1	2	1	3	2	3	2	1	6	27	14	7	604	7
8	32	3	2	3	2	3	3	4	4	2	1	3	5	15	14	7	603	8
9	28	3	2	5	5	9	7	7	3	3	1	1	4	11	14	3	604	9
10	17	3	3	5	6	14	9	9	2	2	1	1	4	10	17	3	604	10
11	16	3	2	5	7	12	9	8	4	2	1	2	4	13	15	4	604	11
12	15	4	2	5	5	11	7	7	5	3	1	2	4	15	17	3	605	12
13	10	3	2	4	4	10	7	9	6	4	2	2	7	16	16	6	604	13
14	9	3	3	3	2	8	8	8	7	3	1	2	7	18	17	5	604	14
15	9	3	2	3	3	7	5	7	7	5	2	2	6	21	17	6	605	15
16	11	2	3	4	2	5	5	6	6	6	3	4	8	19	19	5	604	16
17	12	3	5	4	2	3	3	7	6	5	3	5	8	22	18	5	594	17
18	13	2	2	3	1	2	2	3	4	4	2	4	10	29	17	6	586	18
19	10	1	1	0	1	1	2	5	3	3	1	4	8	38	11	8	585	19
20	11	1	1	1	1	1	2	4	3	4	2	3	6	38	13	7	585	20
21	12	2	1	1	1	1	2	2	2	3	2	2	5	40	15	7	586	21
22	14	2	1	1	1	1	1	3	2	2	2	3	5	35	17	8	586	22
23	15	1	1	1	1	1	2	3	3	2	1	2	5	33	17	9	584	23
BY MONTH	16	3	2	2	4	3	5	4	2	3	2	2	6	25	11	7	3	14372

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF MARCH

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	MOUR
0	13	3	1	1	0	1	1	3	3	2	2	3	6	38	14	7	2	664	0
1	12	2	1	1	1	1	2	2	2	3	2	2	6	38	14	7	3	666	1
2	13	3	1	1	0	1	1	2	4	1	1	2	5	36	17	9	4	664	2
3	15	3	1	1	1	1	1	3	3	2	1	2	6	38	12	7	3	665	3
4	13	3	1	1	0	1	2	3	2	2	1	2	6	35	15	9	3	665	4
5	17	4	1	1	0	1	1	3	3	2	2	2	6	32	15	7	3	665	5
6	20	3	1	1	1	1	1	3	4	2	2	3	6	30	13	7	3	663	6
7	24	2	1	1	1	2	5	3	2	3	2	2	5	21	13	8	3	664	7
8	27	3	3	3	3	5	10	7	3	3	1	2	5	16	7	7	4	663	8
9	16	3	3	3	5	13	7	6	2	2	0	2	5	14	8	5	3	664	9
10	12	2	3	3	5	10	7	7	2	2	3	1	7	15	8	5	3	664	10
11	11	3	2	3	3	10	6	7	5	3	2	3	7	17	7	5	3	662	11
12	9	2	3	3	3	7	6	9	5	5	1	6	9	21	4	6	2	665	12
13	8	3	2	3	3	6	6	7	7	3	3	5	8	22	8	5	3	663	13
14	6	2	1	2	2	5	6	6	6	5	3	5	9	23	6	6	3	663	14
15	6	2	1	2	2	5	5	6	6	6	3	5	10	26	7	6	3	663	15
16	5	2	1	2	2	4	4	7	5	4	4	4	10	28	8	6	3	664	16
17	9	2	2	2	2	4	3	5	6	6	2	3	10	31	6	5	3	647	17
18	10	1	1	2	0	2	2	4	6	6	2	5	10	30	7	5	3	636	18
19	10	1	1	0	0	1	2	4	4	2	2	4	11	36	12	7	2	638	19
20	8	2	1	0	0	2	2	5	3	2	2	4	11	40	11	5	2	639	20
21	8	2	1	0	0	2	2	4	3	2	2	3	7	41	13	8	2	640	21
22	8	2	0	1	0	2	2	3	3	3	2	3	9	35	15	8	3	638	22
23	12	2	1	0	1	1	2	3	3	2	2	3	7	37	15	6	3	638	23
BY MONTH	12	2	1	2	2	4	3	5	4	3	2	3	8	29	11	6	3	15763	



TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF APRIL

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	8	3	1	1	0	1	1	3	2	3	1	3	8	40	13	8	3	640	0
1	10	2	1	1	1	2	1	2	2	2	1	3	8	37	13	8	3	641	1
2	12	3	1	1	1	2	2	3	2	2	1	3	7	35	13	8	3	641	2
3	13	3	1	1	0	1	2	3	2	3	1	2	6	37	14	7	3	640	3
4	13	4	1	1	1	1	2	3	2	3	2	3	7	34	13	6	5	642	4
5	15	4	1	0	0	1	2	2	2	3	2	3	7	32	12	8	4	640	5
6	16	4	1	1	0	1	2	2	2	3	2	4	6	30	12	6	4	642	6
7	24	5	2	3	2	3	3	5	3	2	1	3	5	21	7	6	4	641	7
8	19	2	3	5	3	10	7	6	4	3	1	2	6	16	7	3	2	642	8
9	14	2	3	5	5	11	7	5	5	1	1	3	8	19	6	4	1	641	9
10	10	3	2	3	3	12	7	6	5	3	2	4	8	20	6	4	2	641	10
11	7	1	2	2	3	9	7	7	5	5	3	4	7	24	6	5	2	640	11
12	5	2	2	2	2	6	8	8	6	7	5	4	10	22	6	4	2	640	12
13	3	2	1	2	2	5	8	6	6	6	5	6	12	23	8	5	2	642	13
14	3	2	1	2	1	4	3	6	7	8	4	5	12	27	9	3	3	642	14
15	3	1	1	1	0	3	5	6	7	6	3	7	9	34	9	3	2	640	15
16	3	1	1	1	1	2	2	6	5	7	5	6	10	34	9	5	2	641	16
17	4	1	1	1	1	1	2	6	6	8	3	4	9	38	8	4	2	606	17
18	5	1	1	1	1	2	2	6	8	7	4	5	8	34	8	4	3	599	18
19	9	1	1	1	0	1	1	4	6	8	2	6	10	38	8	3	1	597	19
20	7	1	1	0	0	1	1	4	4	7	3	3	9	43	10	6	2	599	20
21	5	1	1	1	0	1	2	4	4	4	2	4	9	42	12	5	3	598	21
22	7	1	1	1	0	1	2	5	3	4	2	3	8	42	12	8	2	596	22
23	7	2	1	0	1	1	3	4	3	3	2	4	7	40	15	6	3	598	23
BY MONTH	9	2	1	2	1	3	3	5	4	4	2	4	8	32	11	5	3	15089	

TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF MAY

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR	
0	8	3	2	0	1	2	2	6	3	4	1	4	4	6	35	12	8	2	651	0
1	9	2	1	1	1	3	2	3	3	3	1	2	6	36	13	10	2	651	1	
2	11	3	1	0	0	2	2	4	4	2	1	2	7	30	17	9	3	653	2	
3	11	3	1	0	0	2	2	3	3	3	1	3	5	31	16	11	5	653	3	
4	12	4	1	1	1	1	1	3	3	2	1	2	5	32	14	11	5	666	4	
5	12	5	1	1	0	1	2	3	2	2	1	2	6	30	17	10	4	666	5	
6	17	3	2	2	1	1	3	4	3	2	2	3	4	23	15	10	5	664	6	
7	20	6	5	4	1	5	3	7	4	3	1	3	4	13	6	8	5	664	7	
8	13	2	5	7	6	11	8	7	4	2	2	3	3	13	5	6	2	665	8	
9	12	2	3	5	5	11	8	9	7	3	3	3	5	15	5	4	3	665	9	
10	7	2	2	3	3	12	7	9	6	7	2	4	7	14	4	5	3	665	10	
11	6	3	2	3	3	9	8	9	9	7	3	6	7	16	7	6	3	664	11	
12	4	2	2	3	3	6	9	5	9	7	4	5	10	16	7	5	2	664	12	
13	2	3	1	3	3	6	9	9	7	9	5	7	9	22	6	6	2	664	13	
14	3	2	1	1	1	6	4	8	8	9	5	7	11	22	6	7	2	664	14	
15	2	2	1	1	1	6	4	6	8	9	5	6	11	25	6	5	2	664	15	
16	3	1	1	1	1	4	4	6	7	10	6	7	8	27	9	6	2	664	16	
17	4	1	1	1	1	4	4	6	6	10	3	6	9	28	9	6	1	630	17	
18	5	1	1	1	1	4	5	6	6	10	4	6	9	26	8	7	1	623	18	
19	6	1	1	1	1	3	3	6	6	9	4	7	8	29	9	4	1	623	19	
20	8	1	0	0	0	2	2	6	4	5	3	5	11	34	11	5	1	609	20	
21	7	1	0	1	0	2	2	5	4	5	1	6	7	37	11	6	2	607	21	
22	7	1	1	1	1	2	2	6	6	4	2	4	6	34	13	8	2	608	22	
23	7	1	1	1	1	2	3	6	4	4	1	4	7	32	13	9	3	607	23	
BY MONTH	8	2	2	2	2	4	4	6	5	5	2	4	7	26	10	7	3	15551		

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF JUNE

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	9	4	1	1	2	4	4	6	10	4	4	3	3	31	4	7	3	590	0
1	12	3	1	1	3	3	3	7	7	4	4	2	2	29	10	10	3	611	1
2	13	3	1	1	3	3	2	7	6	3	2	2	2	27	12	10	4	609	2
3	15	5	0	1	3	3	2	4	5	3	1	1	3	26	15	9	3	613	3
4	17	5	2	1	3	3	2	4	4	3	1	2	3	26	14	11	5	643	4
5	16	5	1	1	3	2	1	3	4	2	1	2	3	28	15	11	4	642	5
6	25	8	3	4	4	2	2	4	3	2	1	1	2	20	14	11	4	640	6
7	26	5	4	6	5	2	6	6	4	2	0	0	2	11	7	7	2	640	7
8	19	5	4	5	12	8	8	8	4	3	0	2	3	9	6	4	3	641	8
9	14	5	5	4	14	10	10	12	4	2	1	1	2	10	5	5	2	641	9
10	10	2	4	5	12	11	6	11	6	3	1	2	3	12	6	5	2	640	10
11	7	3	3	5	12	11	9	11	9	5	2	2	5	14	5	4	2	642	11
12	6	3	3	3	8	11	10	11	10	7	3	3	5	12	5	5	2	643	12
13	6	3	3	3	8	11	7	11	7	10	3	4	5	15	8	4	3	641	13
14	4	2	2	2	7	9	6	9	10	10	4	5	7	14	4	5	2	640	14
15	5	3	2	2	5	13	5	13	8	8	5	5	7	18	4	3	2	639	15
16	3	2	1	1	6	9	6	9	7	12	4	4	6	21	5	5	2	642	16
17	4	2	1	1	5	7	7	8	7	12	5	5	4	22	8	3	2	630	17
18	6	2	1	1	4	6	6	9	8	9	5	5	5	23	7	4	1	602	18
19	7	1	1	1	3	4	4	11	8	11	3	5	7	24	7	4	1	601	19
20	8	2	1	1	2	10	2	10	9	8	2	6	6	28	8	4	2	572	20
21	9	1	1	1	1	9	3	10	9	7	1	5	5	30	9	6	1	572	21
22	8	2	1	2	1	10	3	10	8	6	1	4	5	29	10	7	2	571	22
23	8	3	1	1	4	7	4	7	8	6	1	3	4	30	9	8	2	573	23
BY MONTH	11	3	2	2	2	5	5	8	7	6	2	3	4	21	9	6	3	14878	

TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	15	3	3	2	2	5	6	10	9	8	2	2	3	15	9	5	2	628	0
1	17	5	3	2	2	6	4	8	8	5	2	2	2	17	10	7	2	654	1
2	21	4	1	3	3	4	3	8	4	5	2	3	3	17	11	7	2	654	2
3	27	4	1	2	1	2	2	4	2	3	1	1	3	18	12	10	3	654	3
4	29	4	1	2	1	2	2	5	3	3	1	1	2	20	12	7	5	665	4
5	28	5	1	2	1	2	2	3	2	2	1	1	2	18	14	9	4	664	5
6	36	4	1	2	1	3	2	4	2	2	1	1	2	13	15	6	3	662	6
7	41	6	4	6	3	5	5	4	2	2	0	0	2	4	5	5	2	663	7
8	29	6	5	8	6	13	7	8	3	3	1	0	1	2	2	3	1	662	8
9	20	5	3	8	7	16	11	12	6	6	0	0	0	2	2	2	2	663	9
10	15	4	4	6	5	18	10	14	10	9	0	0	0	2	1	1	2	662	10
11	10	3	3	6	4	15	13	15	10	8	2	2	2	3	2	2	2	663	11
12	11	4	3	4	3	12	12	17	11	10	3	2	1	6	3	2	2	665	12
13	7	4	3	5	4	11	10	12	14	13	3	2	2	6	4	3	1	665	13
14	6	4	2	4	3	13	11	13	13	10	2	3	3	6	3	3	2	663	14
15	6	2	2	4	3	11	10	14	11	11	2	4	4	9	3	4	2	663	15
16	6	1	2	3	4	9	11	14	12	13	3	3	3	6	3	4	2	663	16
17	8	3	2	2	3	7	11	14	13	13	2	3	3	6	4	3	2	649	17
18	8	2	2	2	2	7	12	15	12	14	2	2	2	11	2	3	1	621	18
19	11	1	1	2	3	6	8	15	13	13	3	3	3	10	5	3	1	619	19
20	13	1	1	0	1	2	6	13	12	10	2	3	3	16	7	5	2	609	20
21	12	3	1	2	1	3	4	13	11	9	1	2	2	17	10	6	2	610	21
22	11	2	1	3	1	3	4	11	13	7	1	3	3	16	10	6	3	611	22
23	14	4	2	1	2	3	5	11	12	7	1	2	5	15	10	5	2	610	23
BY MONTH	17	4	2	3	3	7	7	11	9	7	2	2	2	10	7	5	2	15542	

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

## MONTH OF AUGUST

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	17	3	2	2	2	3	4	6	6	5	2	2	3	23	10	7	4	656	0
1	21	4	2	2	1	3	3	6	6	3	1	1	2	21	14	9	2	666	1
2	18	4	1	2	2	4	3	4	4	5	3	1	3	22	15	7	3	666	2
3	24	3	1	2	2	4	3	4	5	3	1	1	2	25	10	9	3	665	3
4	28	3	2	1	1	3	1	3	3	2	1	1	1	24	14	9	2	666	4
5	28	2	1	1	0	2	1	2	2	2	1	0	3	23	14	10	3	664	5
6	28	3	3	1	1	2	1	3	3	3	1	1	3	21	17	10	3	662	6
7	41	7	6	4	2	4	3	4	4	2	1	0	1	8	7	6	3	665	7
8	34	6	5	6	6	11	7	4	4	2	1	0	1	3	2	2	2	665	8
9	21	4	4	6	8	19	12	8	5	3	0	0	1	2	2	2	2	665	9
10	15	5	3	5	9	17	11	12	9	4	0	1	1	3	2	2	2	664	10
11	13	5	4	6	6	17	11	12	9	6	1	1	2	2	2	2	1	666	11
12	13	5	3	6	6	11	11	15	12	9	2	1	2	5	3	2	3	665	12
13	6	4	2	4	4	11	10	14	11	18	2	1	2	9	5	3	2	666	13
14	7	3	2	3	3	8	9	14	9	12	3	2	3	9	5	5	2	664	14
15	8	3	2	3	3	10	10	12	12	12	3	3	4	8	4	4	2	665	15
16	7	3	3	2	2	10	9	10	10	12	4	3	3	9	4	5	2	665	16
17	7	3	2	2	2	9	9	13	10	10	2	2	4	10	4	4	2	648	17
18	9	2	1	2	2	6	9	15	15	12	2	2	3	11	5	5	1	635	18
19	12	1	2	3	2	4	6	12	12	9	1	3	5	13	8	5	1	635	19
20	14	2	2	3	3	3	3	10	11	9	1	2	5	19	10	5	1	634	20
21	14	3	2	1	1	2	3	10	9	9	1	2	4	21	11	6	1	635	21
22	14	3	1	2	1	2	3	10	11	6	1	2	4	18	11	7	3	635	22
23	15	3	2	2	1	3	3	10	10	6	1	2	3	19	12	7	2	633	23
BY MONTH	17	3	2	3	3	7	6	9	8	6	2	2	3	14	8	6	2	15750	

TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF SEPTEMBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	2	3	3	3	6	6	4	2	2	3	24	13	10	2	642	0
1	16	2	1	1	1	1	2	5	5	4	1	1	5	26	15	9	3	640	1
2	19	3	1	1	1	2	2	5	5	4	1	2	4	21	16	10	1	638	2
3	22	2	1	1	1	2	1	3	3	3	1	1	3	24	17	10	4	640	3
4	21	3	1	2	1	2	2	3	2	2	1	1	2	24	20	10	2	641	4
5	25	4	1	1	1	2	2	2	2	1	1	1	3	25	17	8	3	641	5
6	28	2	0	1	0	3	1	2	1	1	1	1	3	25	16	9	3	639	6
7	40	4	2	2	1	2	2	4	4	2	1	1	2	12	8	8	4	637	7
8	32	4	4	5	6	10	7	5	5	2	0	1	1	4	3	4	2	637	8
9	21	1	5	7	9	14	12	10	10	3	0	0	2	5	3	2	1	637	9
10	16	3	3	5	7	15	10	12	12	3	1	1	3	5	3	2	2	638	10
11	13	3	3	5	8	11	11	14	7	5	2	1	2	5	5	3	3	638	11
12	10	2	2	3	4	13	8	15	8	8	2	1	3	8	4	3	2	640	12
13	8	3	2	2	4	11	7	12	12	8	2	3	3	10	5	3	3	641	13
14	7	3	2	2	3	10	7	13	6	10	3	2	4	13	5	4	3	640	14
15	7	3	2	2	2	7	7	13	11	9	4	3	5	13	6	5	2	638	15
16	8	2	2	3	2	7	6	13	13	10	4	3	4	16	6	3	2	640	16
17	10	2	2	2	2	5	7	13	13	11	3	3	5	14	4	4	2	630	17
18	13	2	2	2	2	3	7	10	11	10	3	6	5	15	4	4	1	621	18
19	15	2	1	1	1	1	4	10	9	7	2	4	6	22	4	5	2	623	19
20	15	1	1	1	0	3	3	10	2	4	2	3	6	22	11	6	2	621	20
21	14	1	1	1	1	2	4	10	7	5	1	2	4	25	11	8	2	620	21
22	14	2	1	1	1	2	2	9	9	5	1	2	5	23	14	8	1	622	22
23	16	2	1	1	1	2	3	8	8	5	1	2	4	24	12	7	2	623	23
BY MONTH	17	2	2	3	2	6	5	9	7	5	2	2	4	17	10	6	2	15227	

TABLE II (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	1	1	2	3	3	3	3	1	2	5	32	17	7	2	672	0
1	17	3	1	1	0	1	1	3	2	3	1	2	6	27	14	10	2	672	1
2	15	4	1	1	0	2	1	3	3	3	2	2	4	29	15	10	3	674	2
3	15	3	1	1	0	1	1	3	4	3	1	3	5	29	14	8	3	673	3
4	16	3	2	1	0	1	1	3	3	3	2	1	6	27	17	8	3	673	4
5	21	3	1	1	0	1	2	3	4	2	1	2	5	29	13	8	3	672	5
6	22	3	2	1	1	1	1	3	3	3	1	2	5	29	15	5	4	674	6
7	31	5	1	1	1	2	2	5	3	4	0	1	4	22	9	7	3	674	7
8	35	4	3	5	4	7	9	5	5	4	1	1	2	7	5	3	2	675	8
9	23	2	3	6	6	17	11	9	8	3	1	1	3	7	4	2	1	675	9
10	19	4	3	6	6	18	11	9	9	3	1	2	2	6	3	3	1	673	10
11	14	3	3	6	7	15	11	9	6	5	1	2	3	7	3	3	1	676	11
12	13	2	2	4	6	14	11	11	7	5	1	3	3	11	3	3	2	673	12
13	13	2	3	4	4	12	9	10	8	6	2	3	4	10	5	4	1	671	13
14	9	3	2	2	2	10	7	10	9	7	3	3	5	14	6	4	2	670	14
15	9	2	2	4	3	5	8	10	9	10	3	3	4	15	7	3	2	673	15
16	10	3	3	3	2	4	6	11	11	9	2	4	5	15	6	4	1	670	16
17	14	3	2	2	1	3	6	8	6	8	5	7	9	18	3	3	2	651	17
18	15	1	1	1	0	2	3	6	5	6	4	2	7	32	10	3	2	647	18
19	13	0	0	1	1	1	2	6	6	4	2	3	5	32	16	6	1	648	19
20	11	1	1	1	0	2	2	6	6	4	2	2	6	34	15	5	2	647	20
21	13	0	0	1	0	2	2	5	6	2	1	3	7	32	16	5	2	649	21
22	13	1	1	1	0	2	3	5	6	3	3	3	6	33	14	8	1	647	22
23	14	3	1	1	1	2	2	3	5	2	2	2	4	31	17	7	3	647	23
BY MONTH	16	2	2	2	2	5	5	6	5	4	2	3	5	22	11	5	2	15978	

TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF NOVEMBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	3	1	1	0	1	2	3	4	3	1	3	6	30	17	7	4	635	0
1	15	3	1	1	0	2	2	2	5	3	1	1	6	30	16	9	3	637	1
2	17	3	1	1	0	1	1	3	2	3	1	2	5	32	15	7	5	637	2
3	19	2	1	1	0	1	1	3	3	3	1	2	6	33	13	9	3	636	3
4	19	3	2	1	0	1	2	2	3	2	1	3	5	31	14	9	3	637	4
5	21	3	1	1	1	2	2	2	3	3	2	2	4	30	12	9	2	640	5
6	21	3	0	2	1	2	1	3	2	3	2	2	5	32	12	6	3	636	6
7	25	3	1	1	1	1	2	4	3	3	1	3	4	28	11	6	4	636	7
8	37	3	3	3	2	4	4	6	4	2	1	1	3	13	4	4	3	634	8
9	26	2	3	5	8	13	9	8	4	1	0	1	2	10	4	3	2	636	9
10	19	2	3	6	7	15	11	10	4	1	1	2	4	8	5	3	2	636	10
11	18	2	3	5	8	16	10	7	4	2	1	2	3	11	4	1	3	637	11
12	17	3	3	5	8	12	9	9	4	3	1	2	5	11	5	3	1	634	12
13	14	2	3	5	5	12	9	9	5	3	2	3	4	12	5	4	3	634	13
14	13	2	2	4	5	9	8	10	7	4	2	3	5	13	4	5	3	633	14
15	15	3	2	4	3	10	6	8	6	7	2	2	5	15	5	4	3	634	15
16	15	3	2	4	3	3	5	9	8	7	4	6	6	15	6	3	2	633	16
17	18	1	2	3	3	2	3	3	3	3	3	5	9	31	7	4	2	630	17
18	13	1	0	0	1	1	3	4	3	3	2	3	8	40	12	5	1	615	18
19	11	2	0	1	1	1	2	5	2	2	2	2	7	38	15	7	2	615	19
20	10	2	0	1	1	1	3	4	3	1	1	2	6	39	17	6	2	614	20
21	12	1	1	1	1	1	2	3	4	3	0	3	6	36	19	7	2	614	21
22	15	2	0	0	1	1	1	2	3	2	1	2	5	35	14	10	2	613	22
23	15	2	1	1	1	1	2	2	3	2	1	3	5	33	17	8	2	618	23
BY MONTH	17	2	2	2	2	5	4	5	4	3	1	3	5	25	11	6	2	15124	



TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF DECEMBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	2	1	1	1	2	3	3	2	3	6	33	13	7	4	635	0
1	18	2	1	1	1	1	1	3	3	3	2	2	8	33	14	6	2	637	1
2	20	2	1	1	1	1	1	3	3	3	3	3	6	33	14	5	3	638	2
3	22	2	1	1	1	1	1	2	3	3	3	3	6	32	12	6	2	638	3
4	21	2	1	1	1	1	1	2	3	3	3	3	6	32	12	6	2	638	4
5	23	3	1	1	1	1	1	2	2	3	1	5	5	33	13	6	2	639	5
6	26	3	1	1	1	1	1	2	2	2	2	6	6	32	11	6	2	638	6
7	26	3	1	1	1	1	1	3	3	2	2	5	5	31	11	4	3	639	7
8	36	2	2	1	1	3	7	6	4	3	2	2	5	18	10	4	3	650	8
9	33	2	2	4	3	9	8	8	4	2	1	4	4	10	5	3	2	648	9
10	27	2	2	5	7	13	10	6	5	3	2	2	4	8	4	2	1	648	10
11	21	2	3	4	5	16	9	6	4	2	1	4	4	10	4	2	2	650	11
12	21	4	2	4	5	15	9	6	4	3	1	2	3	13	4	3	1	646	12
13	18	3	2	4	4	14	7	6	4	4	2	2	4	14	5	3	1	647	13
14	18	3	3	4	4	10	7	5	6	3	2	2	7	13	5	4	2	645	14
15	19	3	3	4	3	9	7	6	7	4	2	2	6	16	6	4	2	647	15
16	15	1	4	5	1	6	3	3	2	8	7	7	6	14	5	5	2	645	16
17	17	3	2	2	1	2	2	2	3	3	3	3	6	35	8	6	2	623	17
18	14	1	1	1	0	1	1	2	2	2	2	6	6	42	14	6	2	616	18
19	13	1	1	1	1	1	1	2	2	1	3	6	6	40	15	6	2	616	19
20	13	2	1	1	1	1	1	2	1	3	4	6	6	38	16	5	3	614	20
21	17	2	1	1	1	1	1	1	2	1	2	7	7	38	14	6	2	612	21
22	14	1	2	1	1	1	1	2	3	3	2	6	6	39	13	9	2	615	22
23	14	2	1	1	1	1	1	3	3	3	2	6	6	36	14	7	3	618	23
BY MONTH	20	2	2	2	2	5	4	4	3	3	2	2	6	27	10	5	2	15242	

TABLE III

PREVAILING SURFACE WIND DIRECTION, AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS
0	N	682	37	6	0	682
1	N	688	37	6	0	688
2	N	689	36	5	0	689
3	N	689	36	6	0	689
4	N	689	34	5	0	689
5	N	692	32	5	0	692
6	N	693	35	5	0	693
7	N	693	36	4	0	693
8	N	695	38	4	0	695
9	N	698	35	4	0	698
10	E	696	38	5	0	696
11	E	697	41	5	0	697
12	E	692	40	6	0	692
13	N	692	34	6	0	692
14	N	693	35	7	0	693
15	N	692	32	7	0	692
16	N	691	30	6	0	691
17	N	680	31	6	0	680
18	N	670	35	6	0	670
19	N	690	36	6	0	690
20	N	689	33	6	0	689
21	N	688	38	6	0	688
22	N	688	36	6	0	688
23	N	671	35	6	0	671
BY MONTH	N	16537	41	6	0	16537

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS
0	N	631	34	7	0	631
1	N	632	34	6	0	632
2	N	631	39	6	0	631
3	N	631	38	6	0	631
4	N	632	36	6	0	632
5	N	633	28	6	0	633
6	N	631	34	5	0	631
7	N	632	30	5	0	632
8	N	631	34	5	0	631
9	N	632	33	5	0	632
10	E	632	35	6	0	632
11	N	632	35	6	0	632
12	N	632	34	7	0	632
13	N	632	35	7	0	632
14	N	631	32	8	0	631
15	N	632	30	8	0	632
16	N	631	30	8	0	631
17	N	621	32	8	0	621
18	N	615	36	7	0	615
19	N	631	41	7	0	631
20	N	632	36	7	0	632
21	N	633	42	7	0	633
22	N	632	42	7	0	632
23	N	613	35	7	0	613
BY MONTH	N	15115	42	7	0	15115

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS
0	N	695	30	9	0	695
1	N	697	30	8	0	697
2	N	695	30	8	0	695
3	N	696	30	7	0	696
4	N	698	30	7	0	698
5	N	698	27	7	0	698
6	N	694	30	6	0	694
7	N	695	31	6	0	695
8	N	697	30	6	0	697
9	N	697	30	7	0	697
10	N	700	30	6	0	700
11	N	698	28	8	0	698
12	N	696	35	9	0	696
13	N	694	34	9	0	694
14	N	694	28	9	0	694
15	N	694	42	10	0	694
16	N	695	32	9	0	695
17	N	679	33	9	0	679
18	N	667	45	8	0	667
19	N	693	32	8	0	693
20	N	692	39	9	0	692
21	N	692	33	9	0	692
22	N	690	46	8	0	690
23	N	670	26	8	0	670
BY MONTH	N	16616	46	8	0	16616

• MAXIMUM SUSTAINED WIND SPEED

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF APRIL

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL OBSERVATIONS		TOTAL OBSERVATIONS	
HOUR	PREVAILING	HIGH	MEAN	LOW	HOUR	PREVAILING	HIGH	MEAN
0	W	670	31	9	0	W	670	31
1	W	671	40	9	1	W	671	40
2	W	671	44	8	2	W	671	44
3	W	672	30	8	3	W	672	30
4	W	675	30	7	4	W	675	30
5	W	674	28	7	5	W	674	28
6	W	672	30	6	6	W	672	30
7	W	671	33	6	7	W	671	33
8	W	675	32	7	8	W	675	32
9	W	673	30	8	9	W	673	30
10	W	673	34	8	10	W	673	34
11	W	672	39	9	11	W	672	39
12	W	670	37	10	12	W	670	37
13	W	672	34	10	13	W	672	34
14	W	672	40	10	14	W	672	40
15	W	671	44	11	15	W	671	44
16	W	672	35	11	16	W	672	35
17	W	637	36	10	17	W	637	36
18	W	629	44	10	18	W	629	44
19	W	646	40	9	19	W	646	40
20	W	647	39	9	20	W	647	39
21	W	646	35	10	21	W	646	35
22	W	646	30	9	22	W	646	30
23	W	628	29	9	23	W	628	29
BY MONTH	W	15905	44	9	0	W	15905	44

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS
0	N	682	28	8	0	682
1	N	682	30	8	0	682
2	N	684	30	7	0	684
3	N	684	30	7	0	684
4	N	697	32	6	0	697
5	N	699	34	6	0	699
6	N	695	35	5	0	695
7	N	695	36	5	0	695
8	N	698	27	6	0	698
9	N	696	27	7	0	696
10	N	698	30	8	0	698
11	N	697	26	8	0	697
12	N	695	28	9	0	695
13	N	695	30	9	0	695
14	N	695	30	9	0	695
15	N	708	30	9	0	708
16	N	698	32	10	0	698
17	N	664	32	9	0	664
18	N	655	29	9	0	655
19	N	674	30	8	0	674
20	N	657	30	8	0	657
21	N	654	32	8	0	654
22	N	654	36	8	0	654
23	N	639	26	8	0	639
BY MONTH		16395	36	8	0	16395

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

WIND DIRECTION		WIND SPEED (KNOTS)				TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR
0	N	620	30	7	0	620	0
1	N	641	30	7	0	641	1
2	N	639	26	6	0	639	2
3	N	643	28	6	0	643	3
4	N	673	22	5	0	673	4
5	N	672	20	5	0	672	5
6	N	669	26	4	0	669	6
7	N	670	25	4	0	670	7
8	E	669	28	5	0	669	8
9	E	671	27	6	0	671	9
10	ESE	670	26	7	0	670	10
11	N	672	30	7	0	672	11
12	N	674	22	7	0	674	12
13	N	672	28	8	0	672	13
14	N	674	26	8	0	674	14
15	N	703	34	8	0	703	15
16	N	677	25	8	0	677	16
17	N	666	31	9	0	666	17
18	N	639	26	8	0	639	18
19	N	652	26	8	0	652	19
20	N	623	23	7	0	623	20
21	N	624	30	7	0	624	21
22	N	621	35	8	0	621	22
23	N	605	28	8	0	605	23
BY MONTH	N	15739	35	7	0	15739	

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL		TOTAL	
HOUR	PREVAILING	OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS	HOUR	
0	W	659	20	5	0	659	0	
1	W	685	23	5	0	685	1	
2	W	685	23	4	0	685	2	
3	W	685	22	3	0	685	3	
4	W	696	22	3	0	696	4	
5	W	695	25	3	0	695	5	
6	WNE	693	13	3	0	693	6	
7	WNE	694	15	2	0	694	7	
8	E	693	16	3	0	693	8	
9	E	694	18	4	0	694	9	
10	E	694	17	5	0	694	10	
11	E	695	22	5	0	695	11	
12	SE	696	20	5	0	696	12	
13	SSE	695	24	6	0	695	13	
14	SE	693	24	6	0	693	14	
15	SE	703	22	7	0	703	15	
16	SE	693	25	7	0	693	16	
17	SE	679	28	7	0	679	17	
18	SE	653	23	7	0	653	18	
19	SE	670	26	6	0	670	19	
20	W	660	20	6	0	660	20	
21	W	659	26	6	0	659	21	
22	W	659	22	6	0	659	22	
23	W	646	24	6	0	646	23	
BY MONTH	SE	16374	28	5	0	16374		

• MAXIMUM SUSTAINED WIND SPEED



TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS
0	N	687	22	5	0	687
1	W	697	20	4	0	697
2	W	697	24	4	0	697
3	W	696	20	3	0	696
4	W	697	21	3	0	697
5	W	695	15	3	0	695
6	W	693	20	3	0	693
7	W	696	22	2	0	696
8	E	696	18	3	0	696
9	E	696	19	4	0	696
10	E	695	17	4	0	695
11	E	697	20	5	0	697
12	SE	697	19	5	0	697
13	SE	697	19	6	0	697
14	SE	695	18	6	0	695
15	SE	696	18	7	0	696
16	SE	696	20	6	0	696
17	SSE	679	24	6	0	679
18	SSE	667	20	6	0	667
19	W	685	24	5	0	685
20	W	685	26	5	0	685
21	W	684	24	5	0	684
22	W	684	25	5	0	684
23	W	666	26	5	0	666
BY MONTH	W	16573	26	5	0	16573

\* MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEA MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL		WIND SPEED (KNOTS)		TOTAL	
HOUR	PREVAILING	OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS	HOUR	PREVAILING	OBSERVATIONS	HOUR
0	N	672	22	5	0	672	0	N	672	0
1	N	670	26	4	0	670	1	N	670	1
2	N	673	24	4	0	673	2	N	673	2
3	N	675	24	4	0	675	3	N	675	3
4	N	676	22	4	0	676	4	N	676	4
5	N	675	25	3	0	675	5	N	675	5
6	N	669	20	3	0	669	6	N	669	6
7	N	667	18	2	0	667	7	N	667	7
8	E	667	25	3	0	667	8	E	667	8
9	E	667	33	4	0	667	9	E	667	9
10	E	670	23	4	0	670	10	E	670	10
11	SE	670	26	5	0	670	11	SE	670	11
12	SE	670	20	5	0	670	12	SE	670	12
13	SE	672	20	6	0	672	13	SE	672	13
14	SE	672	24	6	0	672	14	SE	672	14
15	N	669	26	6	0	669	15	N	669	15
16	N	671	27	6	0	671	16	N	671	16
17	N	662	26	6	0	662	17	N	662	17
18	N	652	24	5	0	652	18	N	652	18
19	N	682	25	5	0	682	19	N	682	19
20	N	676	22	5	0	676	20	N	676	20
21	N	672	22	5	0	672	21	N	672	21
22	N	674	20	5	0	674	22	N	674	22
23	N	656	21	5	0	656	23	N	656	23
BY MONTH		16079	33	5	0	16079				

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	
HOUR	PREVAILING	OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS
0	N	703	26	5	0	703
1	N	703	34	5	0	703
2	N	705	38	5	0	705
3	N	706	34	5	0	706
4	N	706	32	4	0	706
5	N	705	38	4	0	705
6	N	707	28	4	0	707
7	N	705	24	3	0	705
8	SE	706	25	3	0	706
9	E	706	23	4	0	706
10	E	704	27	5	0	704
11	E	707	20	5	0	707
12	E	704	28	6	0	704
13	E	702	24	6	0	702
14	N	701	25	6	0	701
15	N	705	25	6	0	705
16	N	702	28	6	0	702
17	N	685	32	5	0	685
18	N	682	26	5	0	682
19	N	702	26	5	0	702
20	N	697	34	5	0	697
21	N	697	28	5	0	697
22	N	693	30	5	0	693
23	N	678	30	5	0	678
BY MONTH	N	16811	38	5	0	16811

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL		WIND SPEED (KNOTS)		TOTAL	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS	HOUR	PREVAILING	TOTAL OBSERVATIONS	HOUR
0	N	665	30	6	0	665	0	N	665	0
1	N	667	34	6	0	667	1	N	667	1
2	N	667	32	6	0	667	2	N	667	2
3	N	667	35	5	0	667	3	N	667	3
4	N	666	36	5	0	668	4	N	668	4
5	N	671	36	5	0	671	5	N	671	5
6	N	666	30	5	0	666	6	N	666	6
7	N	666	28	4	0	666	7	N	666	7
8	N	664	35	4	0	664	8	N	664	8
9	E	666	33	5	0	666	9	E	666	9
10	E	666	30	5	0	666	10	E	666	10
11	E	667	35	6	0	667	11	E	667	11
12	E	664	33	6	0	664	12	E	664	12
13	E	664	27	6	0	664	13	E	664	13
14	N	663	28	6	0	663	14	N	663	14
15	N	664	31	6	0	664	15	N	664	15
16	N	664	29	6	0	664	16	N	664	16
17	N	661	30	5	0	661	17	N	661	17
18	N	645	30	6	0	645	18	N	645	18
19	N	668	27	6	0	668	19	N	668	19
20	N	667	34	6	0	667	20	N	667	20
21	N	667	38	6	0	667	21	N	667	21
22	N	667	39	6	0	667	22	N	667	22
23	N	650	35	6	0	650	23	N	650	23
BY MONTH	N	15944	39	6	0	15944				

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL		TOTAL	
HOUR	PREVAILING	OBSERVATIONS	HIGH	MEAN	LOW	OBSERVATIONS	HOUR	
0	N	666	30	6	0	666	0	
1	N	668	35	6	0	668	1	
2	N	670	32	6	0	670	2	
3	N	670	32	5	0	670	3	
4	N	670	36	5	0	670	4	
5	N	671	38	5	0	671	5	
6	N	669	34	5	0	669	6	
7	N	669	36	5	0	669	7	
8	N	682	30	4	0	682	8	
9	N	681	29	5	0	681	9	
10	E	682	30	5	0	682	10	
11	E	692	34	5	0	692	11	
12	E	690	36	6	0	690	12	
13	E	689	37	6	0	689	13	
14	N	679	44	6	0	679	14	
15	N	680	40	6	0	680	15	
16	N	678	30	6	0	678	16	
17	N	658	36	6	0	658	17	
18	N	647	36	6	0	647	18	
19	N	666	33	6	0	666	19	
20	N	660	38	6	0	660	20	
21	N	654	40	6	0	654	21	
22	N	659	30	6	0	659	22	
23	N	651	37	6	0	651	23	
BY MONTH	N	16101	44	6	0	16101		

• MAXIMUM SUSTAINED WIND SPEED

TABLE IVa.

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
"A" STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)				GUST		HOUR
		<20	20- 30	30- 40	40- 50	50- 60	>60	
1	60 260	85	7	5	1	1	0	1
2	53 260	86	7	2	4	1	0	2
3	58 230	86	5	7	0	1	0	3
4	54 250	84	8	5	0	1	0	4
5	52 260	84	8	6	2	1	0	5
6	57 260	87	7	4	2	0	0	6
7	63 280	88	6	3	2	0	0	7
8	47 290	88	5	4	3	0	0	8
9	47 280	89	7	1	3	0	0	9
10	54 250	88	9	2	0	1	0	10
11	60 250	85	7	5	2	0	0	11
12	63 250	81	11	6	2	0	0	12
13	60 250	78	12	7	1	0	0	13
14	49 260	77	14	6	3	0	0	14
15	49 260	74	16	6	1	0	0	15
16	52 270	77	14	4	4	1	0	16
17	50 260	79	12	4	3	0	0	17
18	51 260	78	12	7	2	0	0	18
19	58 260	79	10	8	2	1	0	19
20	62 240	77	13	5	3	0	0	20
21	62 260	80	11	4	2	0	0	21
22	60 260	80	11	8	0	0	0	22
23	61 260	82	10	6	1	0	0	23
24	61 260	82	8	6	2	1	0	24
BY MONTH	63 250	82	10	5	2	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
LA STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

## FEBRUARY

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	20-30		30-40		40-50		50-60		HOUR
			>20	<30	>30	<40	>40	<50	>50	<60	
1	50 240	81	12		4		3		1		1
2	49 210	83	10		6		2		0		2
3	48 210	84	8		7		2		0		3
4	53 260	82	9		4		2		1		4
5	56 230	84	7		8		1		1		5
6	56 310	82	11		5		2		1		6
7	49 230	86	8		4		2		0		7
8	44 250	89	6		4		2		0		8
9	42 300	88	7		3		2		0		9
10	44 270	87	7		5		1		0		10
11	45 220	81	11		7		1		0		11
12	46 240	79	13		7		1		0		12
13	49 260	75	14		8		3		0		13
14	46 260	73	17		9		2		0		14
15	43 270	74	11		13		2		0		15
16	56 280	73	15		9		2		1		16
17	71 270	76	9		13		2		0		17
18	49 260	77	12		8		4		0		18
19	60 260	78	12		6		4		0		19
20	47 270	77	11		9		4		0		20
21	57 260	79	10		9		2		1		21
22	61 260	78	10		10		2		0		22
23	58 270	77	12		9		2		1		23
24	53 270	80	9		9		2		1		24
BY MONTH	71 270	80	10		7		2		0		0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

MARCH									
HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	>20		GUST (KNOTS)		>50		HOUR
			>20 <30	>30 <40	>40 <50	>50 <60			
1	60 190	70	15	13	2	0	0	1	
2	49 270	73	13	10	3	0	0	2	
3	48 270	75	14	8	3	0	0	3	
4	54 290	74	16	8	1	1	0	4	
5	48 240	77	11	9	3	0	0	5	
6	55 260	80	10	9	1	0	0	6	
7	53 250	78	13	6	2	0	0	7	
8	53 270	82	10	6	2	0	0	8	
9	50 270	74	16	6	4	0	0	9	
10	51 240	75	14	7	4	0	0	10	
11	51 280	67	19	12	2	1	0	11	
12	53 270	58	28	11	2	0	0	12	
13	47 270	53	31	11	5	0	0	13	
14	50 240	53	28	13	6	1	0	14	
15	62 290	50	30	15	4	1	0	15	
16	63 300	53	25	16	5	0	0	16	
17	59 340	57	27	12	3	1	0	17	
18	54 300	61	21	12	4	2	0	18	
19	52 250	61	21	13	4	0	0	19	
20	48 250	62	21	13	4	0	0	20	
21	53 270	62	23	11	4	0	0	21	
22	73 250	65	21	9	5	0	0	22	
23	59 260	66	22	9	3	0	0	23	
24	49 280	67	19	11	3	0	0	24	
BY MONTH	73 250	66	20	10	3	0	0	0	



TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
A. STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

## APRIL

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)		GUST (KNOTS)		HOUR
		<20	>20 <30	>30 <40	>40 <50	
1	61 350	64	19	14	2	1
2	78 300	66	16	14	2	2
3	56 250	68	16	13	2	3
4	51 240	71	16	11	1	4
5	51 250	73	14	10	1	5
6	44 230	75	14	10	1	6
7	70 290	76	12	10	1	7
8	47 260	74	13	10	3	8
9	57 240	68	16	13	2	9
10	50 210	64	18	15	3	10
11	56 260	55	25	13	7	11
12	56 250	48	28	18	5	12
13	59 290	41	31	16	9	13
14	55 240	37	33	22	8	14
15	58 260	37	30	26	5	15
16	63 270	34	36	20	5	16
17	53 270	40	30	19	8	17
18	60 270	46	25	22	5	18
19	51 270	52	26	16	5	19
20	50 270	57	22	18	3	20
21	55 220	59	20	18	2	21
22	61 60	61	23	12	2	22
23	54 270	60	24	11	4	23
24	45 250	63	19	15	3	24
BY MONTH	78 300	58	22	15	4	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

MAY

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	GUST (KNOTS)				HOUR
			>20 <30	>30 <40	>40 <50	>50 <60	
1	40 230	74	18	8	0	0	1
2	38 270	76	16	8	0	0	2
3	41 260	78	15	6	0	0	3
4	40 270	83	12	5	0	0	4
5	45 260	85	10	5	0	0	5
6	48 230	88	6	4	0	0	6
7	51 260	85	10	4	0	0	7
8	40 260	86	9	4	0	0	8
9	49 240	82	12	5	0	0	9
10	53 230	73	15	5	0	0	10
11	44 230	71	22	6	0	0	11
12	49 270	66	25	8	0	0	12
13	52 250	56	33	10	0	0	13
14	48 270	52	34	12	0	0	14
15	55 220	48	36	13	0	0	15
16	50 190	45	35	14	0	0	16
17	50 270	51	35	12	0	0	17
18	53 270	55	30	13	0	0	18
19	39 260	64	26	11	0	0	19
20	44 290	68	23	8	0	0	20
21	46 270	69	22	7	0	0	21
22	51 290	73	23	4	0	0	22
23	42 270	78	15	7	0	0	23
24	43 270	76	17	7	0	0	24
BY MONTH	55 220	70	21	8	1	0	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

JUNE

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)				HOUR			
		<20	≥20 <30	≥30 <40	≥40 <50	≥50 <60	≥60	BY MONTH	MONTH
1	44 260	73	25	1	1	0	0	1	1
2	44 260	79	18	2	0	0	0	2	2
3	40 270	84	15	1	0	0	0	3	3
4	34 250	89	9	1	0	0	0	4	4
5	38 260	90	8	2	0	0	0	5	5
6	40 280	91	8	0	0	0	0	6	6
7	41 270	92	6	1	0	0	0	7	7
8	36 270	90	8	2	0	0	0	8	8
9	40 270	83	16	1	0	0	0	9	9
10	42 270	78	21	1	0	0	0	10	10
11	40 270	75	24	1	0	0	0	11	11
12	45 270	71	27	1	1	0	0	12	12
13	45 260	63	32	4	0	0	0	13	13
14	45 260	59	36	5	0	0	0	14	14
15	40 270	55	40	5	0	0	0	15	15
16	42 270	58	34	7	1	0	0	16	16
17	48 280	56	35	6	3	0	0	17	17
18	43 80	54	38	7	1	0	0	18	18
19	47 250	61	32	6	1	0	0	19	19
20	44 220	72	23	5	0	0	0	20	20
21	52 260	71	23	5	0	0	0	21	21
22	55 260	69	26	4	0	0	0	22	22
23	58 260	72	23	4	0	0	0	23	23
24	47 230	73	24	2	1	0	0	24	24
BY MONTH	58 260	73	23	3	1	0	0		

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

JULY

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	20 30	30 40	40 50	50 60	60 70	HOUR
1	31 180	91	2	1	0	0	0	1
2	30 210	93	6	1	0	0	0	2
3	30 160	97	2	0	0	0	0	3
4	34 150	96	3	1	0	0	0	4
5	25 270	98	2	0	0	0	0	5
6	24 280	100	0	0	0	0	0	6
7	30 160	99	1	0	0	0	0	7
8	22 190	99	1	0	0	0	0	8
9	22 180	99	1	0	0	0	0	9
10	28 130	99	1	0	0	0	0	10
11	25 110	95	5	0	0	0	0	11
12	25 140	94	6	0	0	0	0	12
13	28 20	92	8	0	0	0	0	13
14	37 90	86	13	1	0	0	0	14
15	31 100	86	14	0	0	0	0	15
16	35 240	60	19	2	0	0	0	16
17	31 120	80	20	0	0	0	0	17
18	34 80	84	15	1	0	0	0	18
19	33 290	87	12	1	0	0	0	19
20	40 290	86	13	1	0	0	0	20
21	39 170	89	9	1	0	0	0	21
22	29 170	86	14	0	0	0	0	22
23	37 120	87	11	1	0	0	0	23
24	27 170	91	9	0	0	0	0	24
BY MONTH	40 290	91	8	1	0	0	0	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

## AUGUST

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	GUST (KNOTS)				>60	HOUR
			≥20 <30	≥30 <40	≥40 <50	≥50 <60		
1	29 170	97	3	0	0	0	0	1
2	26 260	98	2	0	0	0	0	2
3	29 280	99	1	0	0	0	0	3
4	29 270	99	1	0	0	0	0	4
5	29 290	99	1	0	0	0	0	5
6	26 290	100	0	0	0	0	0	6
7	28 290	99	1	0	0	0	0	7
8	21 310	100	0	0	0	0	0	8
9	19 110	100	0	0	0	0	0	9
10	24 290	99	1	0	0	0	0	10
11	24 110	98	2	0	0	0	0	11
12	27 170	94	6	0	0	0	0	12
13	30 340	91	8	0	0	0	0	13
14	33 230	93	7	0	0	0	0	14
15	27 130	88	12	0	0	0	0	15
16	38 50	87	12	1	0	0	0	16
17	33 120	90	9	1	0	0	0	17
18	32 250	89	11	0	0	0	0	18
19	39 350	90	8	2	0	0	0	19
20	45 140	90	7	2	1	0	0	20
21	38 180	89	10	1	0	0	0	21
22	52 20	89	9	1	0	0	0	22
23	37 30	92	7	1	0	0	0	23
24	33 160	96	3	0	0	0	0	24
BY MONTH	52 20	94	5	0	0	0	0	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

## SEPTEMBER

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	220 <30	230 <40	240 <50	250 <60	>60	HOUR
1	45 260	94	4	1	0	0	0	1
2	40 250	95	5	0	0	0	0	2
3	35 260	97	3	0	0	0	0	3
4	32 260	96	3	0	0	0	0	4
5	27 270	98	2	0	0	0	0	5
6	25 270	98	2	0	0	0	0	6
7	26 250	98	2	0	0	0	0	7
8	28 320	98	2	0	0	0	0	8
9	29 260	98	2	0	0	0	0	9
10	28 240	95	5	0	0	0	0	10
11	30 250	93	6	0	0	0	0	11
12	31 260	91	8	0	0	0	0	12
13	36 220	89	9	1	0	0	0	13
14	34 240	87	13	1	0	0	0	14
15	39 200	86	13	1	0	0	0	15
16	43 220	87	12	0	0	0	0	16
17	39 270	86	10	3	0	0	0	17
18	34 280	91	6	3	0	0	0	18
19	36 270	90	7	3	0	0	0	19
20	37 250	91	7	2	0	0	0	20
21	33 270	92	7	1	0	0	0	21
22	33 250	91	7	2	0	0	0	22
23	37 250	92	7	1	0	0	0	23
24	36 250	91	7	2	0	0	0	24
BY MONTH	45 260	93	6	1	0	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
1A° STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

## OCTOBER

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	GUST (KNOTS)				HOUR
			220 <30	230 <40	240 <50	250 <60	
1	45 190	86	8	5	1	0	1
2	60 270	88	7	3	0	0	2
3	50 270	89	6	4	0	0	3
4	50 270	88	7	3	1	0	4
5	51 270	90	7	2	0	0	5
6	51 260	93	5	1	1	0	6
7	51 260	94	4	1	0	0	7
8	49 170	91	7	1	1	0	8
9	41 160	90	7	2	0	0	9
10	36 260	85	11	4	0	0	10
11	37 280	82	13	5	0	0	11
12	43 160	81	13	5	0	0	12
13	41 250	79	15	6	0	0	13
14	49 180	76	20	3	1	0	14
15	49 260	76	16	6	1	0	15
16	44 250	81	12	5	2	0	16
17	45 240	82	10	7	1	0	17
18	45 230	83	9	5	2	0	18
19	50 190	85	10	3	1	0	19
20	47 270	83	9	7	1	0	20
21	50 260	82	8	6	2	0	21
22	52 230	83	9	6	1	0	22
23	45 260	81	11	6	2	0	23
24	45 270	86	6	6	2	0	24
BY MONTH	60 270	85	10	4	1	0	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR

'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

## NOVEMBER

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)				HOUR
		<20	220 <30	230 <40	240 <50	
1	49 270	83	8	8	1	1
2	50 210	84	9	6	1	2
3	42 240	84	8	7	1	3
4	55 250	84	7	7	1	4
5	44 230	86	6	7	1	5
6	54 150	86	6	5	1	6
7	50 180	86	6	5	1	7
8	54 270	88	6	3	2	8
9	48 260	87	7	5	1	9
10	47 260	84	10	3	3	10
11	46 260	83	10	4	2	11
12	45 240	78	14	6	2	12
13	49 280	74	19	5	2	13
14	49 270	78	11	9	2	14
15	42 290	73	18	8	1	15
16	48 260	77	14	8	1	16
17	44 260	79	14	5	1	17
18	43 260	80	13	6	1	18
19	49 270	82	10	7	1	19
20	51 270	82	11	4	2	20
21	54 260	84	9	5	1	21
22	54 260	84	10	4	0	22
23	50 240	84	9	5	1	23
24	48 240	82	9	6	2	24
BY MONTH	54 260	82	10	6	2	0



TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY  
SURFACE WINDS BY MONTH AND BY HOUR  
'A' STATION, WHITE SANDS MISSILE RANGE, NEK MEXICO  
1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)				HOUR	
		<20	220 <30	230 <40	240 <50	250 <60	>60
1	61 240	74	14	7	4	0	0
2	79 260	77	8	11	3	1	0
3	65 250	79	9	8	3	0	1
4	60 210	80	8	8	2	1	0
5	60 230	81	9	5	4	1	0
6	71 220	80	9	5	4	1	0
7	62 260	81	8	6	4	0	0
8	49 250	79	9	9	3	0	0
9	64 270	80	9	7	3	0	0
10	59 270	80	8	6	5	1	0
11	54 250	77	10	7	5	1	0
12	57 270	77	10	5	6	1	0
13	52 270	74	12	7	6	1	0
14	51 270	71	14	9	5	1	0
15	59 260	71	11	13	5	1	0
16	52 250	69	15	13	1	1	0
17	51 270	73	15	9	3	0	0
18	49 180	74	14	9	3	0	0
19	47 190	73	14	9	4	0	0
20	67 200	70	13	12	3	1	0
21	60 250	71	12	11	3	2	0
22	54 250	73	14	6	6	1	0
23	62 250	76	8	11	4	1	0
24	57 260	75	12	9	3	1	0
BY MONTH	79 260	76	11	8	4	1	0

TABLE IVb.

Maximum Wind Gusts in Knots, 1950 - 1973 "A" Station, White Sands Missile Range

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1950	31SW	27NE	35SW	26WSW	35W	26W	26NW	22W	22SSE	17SE	35W	30W	35SW/W*
1951	56SW	65WSW	74W	56SW	48W	45SSW	43SSE	45S	35S	43WNW	56W	82SW	82SW
1952	56W	27NNW	26NW	31W	27S	25SSE	30SSW	43NNW	22W	17SE	48W	49S	56W
1953	56NW	68SW	54SW	56W	55SW	---	37NW	26NW	26SSW	22SE	43NW	65N	68SW
1954	35W	62NNW	65W	40NNW	48W	21W	44E	40NE	32SSE	45W	53W	47NNW	65W
1955	46NNW	40W	64W	66W	48W	49W	36N	32SE	32S	35W	56W	46WSW	66W
1956	64S	64NNW	56W	60W	64W	43W	36SW	32SSW	35SSE	46WSW	47NNW	52W	64NNW/W*
1957	65WSW	40NW	54NNW	66WSW	59WSW	53NNW	33S	51SSE	37NNW	52NNW	38WSW	50WSW	66WSW
1958	61WSW	63SW	60W	66WSW	43W	37S	36WSW	33NW	30NE	26NNW	56SW	46WSW	66WSW
1959	70W	56W	52W	44W	43W	46SSE	34ENE	30S	39ESE	41SW	45WSW	70W	70W
1960	57NNW	68NNW	45W	52W	40W	34S	32E	28S	35WSW	41W	54W	56W	68NNW
1961	35W	52W	64WSW	59W	74WSW	40W	34SSE	27SSE	40W	60SW	56NNW	56S	74WSW
1962	53W	53W	62SSE	52W	54SSW	60S	44SSW	36W	29W	27W	44W	45WSW	62SSE
1963	60W	42WSW	61E	60W	38W	40WSW	43ESE	40S	32S	32W	52W	49NNW	51E
1964	55WSW	48WSW	67W	55W	62W	52SW	37S	50S	28WSW	30SE	53WSW	63W	67W
1965	63SW	58SW	56W	47W	56W	58SSW	57E	40WSW	48WSW	58SSE	61W	59W	63SW
1966	61W	49WSW	61SW	59W	45NNW	41S	33WSW	38NNW	30NNE	46W	49SSW	52SW	61W/SW*
1967	62WSW	56SW/NW*	73WSW	63W	47W	41W	33NNW	40ENE	30ESE/W*	60W	54W	65WSW	73WSW
1968	43W	49W	43NNW	57WSW	43W	43E/SSE*	36NNE	44WSW	34W	45W	51WSW	67SSW	67SSW
1969	63W	49W	60S	47W	49W	47WSW	39ENE	33ESE/SW*	28SSE	49W	47WSW/W*	50W	63W
1970	45W	42WSW	59NNW	61W	45W	58W	29W	29ESE/SE/N*	33SSE	49SW	53WSW	56SW	61W
1971	49WSW	71W	62NNW	60W	55SW	33W	30WSW	52NNE	39W	52SW	50S	53W	71W
1972	62W	48W	63NW	49W	39S	47WSW	38NNE	38NE	29W	37WSW	55WSW	79W	79W
1973	50NNW	58W	54NNW	78NNW	53SW	36W	40NNW	39N	45W	45W	56SW	62W	78NNW
Extremes	70W	71W	74W	78NNW	74WSW	60S	57E	52NNE	48WSW	60W/SW*	61W	82SW	82SW
Year	1959	1971	1951	1973	1961	1962	1965	1971	1965	1961 1967	1965	1951	1951

\* More than one occurrence.

**SECTION II**

**SKY COVER VS SURFACE WIND SPEED**

54a

Table V. Relative Frequency Distribution of Sky Cover Vs  
Surface Wind Speed by Months and by Hours ----- 55

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TABLE V

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
32	33	36	34	37	38	35	29	30	30	28	26	25	26	22	19	20	19	23	26	28	29	31	30	32	29
SKY COVER 1-5/10	12	11	12	13	14	17	20	16	17	15	14	14	13	13	13	11	11	14	14	12	12	11	12	12	13
SKY COVER 6-9/10	6	9	10	8	7	7	10	12	13	13	12	11	10	10	9	11	11	13	13	12	11	10	10	9	10
SKY COVER ABOVE 9/10	12	11	12	11	14	14	12	15	18	17	15	16	17	14	13	14	14	13	14	11	11	11	10	11	13
TOTAL OBSERVATIONS	661	687	687	687	688	690	692	692	692	693	692	693	689	690	692	691	690	679	670	668	670	669	669	670	16416

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
WIND 6-14 KNOTS

HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	DAY MONTH
SKY COVER																									
CLEAR																									
3	14	11	13	11	10	8	5	6	5	6	7	7	7	9	12	11	11	8	6	9	10	11	13	12	9
SKY COVER																									
1-5/10																									
5	5	6	5	4	4	5	5	4	4	6	7	7	7	7	9	8	8	6	6	7	7	7	7	8	6
SKY COVER																									
6-9/10																									
3	3	2	3	2	2	3	4	3	5	6	6	6	8	8	9	10	11	7	5	5	6	5	4	4	5
SKY COVER																									
ABOVE 9/10																									
4	4	3	4	3	3	3	4	5	4	6	6	6	5	6	7	5	6	7	6	5	3	4	4	3	5

TOTAL OBSERVATIONS

601 487 687 687 687 690 492 692 693 692 689 690 679 670 668 670 669 669 670 16416

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
WIND 15-25 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
	SKY COVER																									
3	2	2	2	2	1	2	1	2	1	1	1	1	2	1	2	1	2	2	2	2	3	3	3	2	3	2
	SKY COVER 1-5/10																									
3	3	2	3	1	2	2	1	2	1	1	1	1	2	2	2	2	2	2	3	3	3	3	4	4	2	2
	SKY COVER 6-9/10																									
1	1	1	1	3	2	2	1	2	1	2	2	2	2	2	3	3	3	3	2	3	2	2	2	1	2	2
	SKY COVER ABOVE 9/10																									
1	1	1	0	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	2	1

**TOTAL OBSERVATIONS**

601 607 607 607 607 608 690 692 692 693 692 693 689 690 692 691 690 679 670 668 670 669 669 670 16416

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
 WIND ABOVE 25 KNOTS

HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0
SKY COVER 1-5/10		1	1	0	1	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0
SKY COVER 6-9/10		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0

TOTAL OBSERVATIONS

681 687 687 687 687 688 690 692 692 693 693 692 693 689 690 690 692 691 690 679 670 668 670 669 669 670 16416



TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
30 32 35 37 38 31 28 30 26 25 22 22 22 16 15 15 15 20 24 25 29 29 31 32 27																									
SKY COVER 1-5/10																									
11 9 10 11 12 11 16 16 12 13 11 12 10 10 9 9 9 9 9 11 11 12 10 9 10 11																									
SKY COVER 6-9/10																									
7 8 7 7 5 6 8 11 11 11 10 11 11 9 8 8 9 8 10 9 6 8 7 8 8																									
SKY COVER ABOVE 9/10																									
8 9 9 10 10 9 11 14 16 16 16 13 12 11 10 10 8 9 10 9 8 7 7 8 10																									

TOTAL OBSERVATIONS

630 630 630 630 631 632 629 630 630 630 630 630 633 632 632 633 632 622 619 613 613 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND 6-14 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																										
17	18	15	12	12	8	7	7	7	10	10	10	10	10	10	14	16	14	13	11	8	11	13	14	15	14	12
SKY COVER 1-5/10																										
7	6	5	6	6	5	7	4	6	5	8	8	8	8	10	9	9	9	9	10	8	8	8	8	10	8	7
SKY COVER 6-9/10																										
4	3	3	3	4	2	5	6	5	4	5	6	7	8	8	9	9	11	10	10	8	7	6	5	5	5	6
SKY COVER ABOVE 9/10																										
5	5	4	4	5	6	5	5	5	5	5	6	6	6	7	9	10	10	12	8	8	6	6	5	6	4	6

TOTAL OBSERVATIONS

630 630 630 631 632 629 630 630 630 630 630 633 632 632 633 632 614 613 613 622 614 613 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
4	4	3	3	3	4	3	3	2	2	2	3	3	1	2	2	2	2	3	2	3	4	4	3	4	3
SKY COVER 1-5/10																									
4	3	5	3	3	3	3	3	3	3	5	3	3	4	4	5	4	4	4	4	3	3	3	3	3	4
SKY COVER 6-9/10																									
2	2	2	1	2	1	1	1	1	2	2	2	3	3	3	5	4	5	4	3	3	3	3	2	1	2
SKY COVER ABOVE 9/10																									
1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	2	3	2	1	1	2	1	1	2

TOTAL OBSERVATIONS

630 630 630 630 631 632 629 630 630 630 630 630 633 632 632 633 632 622 619 613 613 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
SKY COVER 1-5/10	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

630 630 630 631 632 629 630 630 630 630 630 630 633 632 632 633 632 622 614 613 613 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY
24	26	26	28	27	28	24	24	24	24	19	17	16	11	11	11	8	9	11	16	19	19	18	20	22	19
SKY COVER 1-5/10	9	7	9	9	12	15	14	11	12	11	8	8	8	8	6	7	6	7	8	8	9	8	10	10	9
SKY COVER 6-9/10	6	6	7	8	7	11	12	10	9	9	9	9	8	8	5	5	5	6	9	9	7	8	6	6	8
SKY COVER ABOVE 9/10	6	7	7	8	8	9	11	13	12	11	9	9	7	6	6	6	6	6	8	8	7	6	7	7	8
TOTAL OBSERVATIONS	695	697	698	696	696	694	695	694	694	694	694	693	694	694	694	694	696	678	667	668	670	671	669	669	16505

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
19	18	19	16	18	15	9	9	11	13	13	14	17	14	14	19	15	15	12	13	16	18	19	18	15	
SKY COVER 1-5/10																									
8	9	7	7	7	9	9	7	8	10	12	14	13	13	14	13	14	11	11	11	11	10	9	8	10	
SKY COVER 6-9/10																									
5	6	6	5	6	5	5	5	6	6	7	8	10	10	13	12	12	14	10	8	7	7	6	6	6	
SKY COVER ABOVE 9/10																									
5	6	4	5	4	4	5	6	7	6	7	8	11	12	13	13	13	10	9	7	7	6	5	6	8	
TOTAL OBSERVATIONS	695	697	695	696	696	694	695	694	694	694	693	694	694	694	694	694	678	667	668	670	671	669	669	16505	

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
6	7	6	6	5	4	3	3	2	3	4	3	3	4	3	3	5	5	4	4	4	6	8	7	8	5
5	4	5	4	4	4	5	5	4	4	5	4	4	4	4	5	4	4	5	5	5	5	4	5	5	4
2	2	3	2	2	2	3	3	2	2	3	3	3	5	4	5	6	6	4	4	3	3	3	2	3	3
2	1	2	2	2	2	2	2	2	1	1	2	3	3	4	3	3	4	5	3	3	2	2	2	1	2
TOTAL OBSERVATIONS	695	697	695	696	696	694	694	695	694	694	694	693	696	694	694	694	696	678	667	668	670	671	669	669	16505

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
SKY COVER 1-5/10	0	0	1	0	0	0	0	1	0	1	1	0	0	1	1	0	1	0	1	1	1	1	0	1
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	695	697	695	696	696	694	695	694	694	694	693	696	694	694	694	696	678	667	662	670	671	669	669	16505



TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND 0-5 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	18
SKY COVER 1-5/10		24	26	29	31	31	29	29	27	22	21	15	14	11	8	6	6	5	7	10	15	17	17	18	21	18
SKY COVER 6-9/10		9	8	8	8	11	14	13	12	10	8	9	7	7	6	6	6	5	4	6	8	8	7	7	6	8
SKY COVER ABOVE 9/10		4	3	6	5	5	8	11	11	10	9	8	6	6	4	4	3	4	6	7	7	6	5	5	4	6
TOTAL OBSERVATIONS		4	4	4	4	4	5	6	7	8	6	5	4	4	3	4	3	5	5	5	6	5	4	5	5	5

670 671 671 670 671 670 672 471 672 671 671 670 670 670 672 671 670 671 636 629 628 628 629 628 628 628 15810

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	19
SKY COVER 1-5/10	22	23	21	20	20	18	11	13	17	17	19	19	19	20	19	20	19	19	16	15	20	21	25	23	19
SKY COVER 6-9/10	8	8	8	9	7	8	6	7	9	10	12	14	15	16	16	16	16	15	14	10	10	13	10	12	11
SKY COVER ABOVE 9/10	5	4	3	5	6	7	8	6	5	7	9	10	11	12	13	12	12	11	10	10	9	5	5	4	8
TOTAL OBSERVATIONS	4	5	4	4	3	3	4	5	6	7	7	9	8	9	11	12	10	11	8	7	5	4	4	5	6
	670	671	671	670	671	670	672	671	671	671	671	670	670	670	672	671	670	671	636	629	628	628	628	628	15010

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
11 10	9	7	7	5	4	4	4	4	4	5	6	5	5	6	6	5	7	6	7	7	9	10	11	10	7
SKY COVER 1-5/10																									
4 4	4	3	3	4	4	4	4	4	4	4	5	5	5	5	5	6	7	7	6	6	6	5	5	5	5
SKY COVER 6-9/10																									
1 2	2	2	2	2	2	2	2	2	2	2	2	3	4	5	3	5	5	4	4	4	2	3	3	2	3
SKY COVER ABOVE 9/10																									
1 1	2	1	1	1	0	1	1	1	1	1	1	2	2	3	3	3	3	4	4	2	2	3	3	2	2

TOTAL OBSERVATIONS

670 671 671 670 671 670 672 671 672 671 672 671 671 670 670 672 671 670 671 636 629 620 629 620 620 620 15810

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND ABOVE 25 KNOTS

HOUR																								By
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR																								
0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0
SKY COVER 1-5/10																								
0	1	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	1	0	0	1	0	0	1	1
SKY COVER 6-9/10																								
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0
SKY COVER ABOVE 9/10																								
1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS																								
670	671	671	670	671	670	672	671	672	671	671	670	670	672	671	670	671	671	670	671	670	671	670	670	15010

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

		MONTH OF MAY																							BY	
		WIND 0-5 KNOTS																								
HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		23
SKY COVER CLEAR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	10
SKY COVER 1-5/10		23	26	31	32	31	27	30	29	24	19	16	12	9	6	8	6	5	6	8	12	18	16	20	21	18
SKY COVER 6-9/10		10	9	10	12	12	18	14	14	14	11	10	9	10	7	6	7	7	8	11	13	10	10	7	9	10
SKY COVER ABOVE 9/10		4	5	4	6	6	10	13	12	10	10	8	6	5	5	6	5	7	6	6	8	8	6	5	10	7
TOTAL OBSERVATIONS		3	2	4	3	4	4	7	8	7	7	4	4	5	2	3	3	2	3	4	3	4	4	3	3	4

682 682 684 684 697 697 695 695 696 696 694 694 696 695 695 695 695 694 694 695 661 654 654 640 638 638 639 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY  
 WIND 3-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
29	27	25	25	22	15	14	15	19	17	24	25	25	25	23	18	19	19	18	18	16	19	25	28	28	22
SKY COVER 1-5/10																									
9	9	7	6	10	10	6	8	8	8	12	14	16	17	22	22	22	21	19	18	17	16	12	11	10	14
SKY COVER 6-9/10																									
5	5	6	4	4	6	5	4	4	6	6	8	13	14	16	16	15	16	15	13	9	7	8	7	6	9
SKY COVER ABOVE 9/10																									
4	3	3	4	3	4	3	3	3	4	3	5	6	6	9	9	9	10	9	9	9	7	5	5	5	6

## TOTAL OBSERVATIONS

682 682 684 684 697 697 695 695 696 694 694 696 695 695 695 695 694 694 661 654 654 640 638 639 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY  
 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
7	6	6	4	3	2	2	2	3	2	2	3	4	4	4	5	4	4	6	6	5	7	7	7	8	5
SKY COVER 1-5/10																									
2	4	2	2	2	2	2	2	2	3	3	4	3	3	2	4	4	3	3	3	3	3	3	3	2	3
SKY COVER 6-9/10																									
2	1	1	1	1	1	1	1	1	2	2	2	1	2	2	2	3	3	4	3	2	1	1	2	1	2
SKY COVER ABOVE 9/10																									
1	1	0	0	0	1	1	1	2	1	1	1	1	1	1	1	2	2	2	2	1	2	1	1	2	1

TOTAL OBSERVATIONS

61 682 684 684 697 697 695 695 696 694 694 696 695 695 695 695 694 695 661 654 654 640 638 639 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY  
 WIND ABOVE 25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
SKY COVER 1-5/10	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

682 682 684 684 697 697 697 695 695 695 694 694 696 695 695 695 695 694 694 654 654 640 638 638 638 16295



TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 WIND U-5 KNOTS

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																								
19	23	28	32	30	25	31	31	30	25	22	19	13	9	5	6	6	6	7	13	15	15	14	16	18
SKY COVER 1-5/10																								
10	13	13	14	21	26	26	21	16	14	12	13	14	13	13	13	13	10	11	11	12	11	11	9	14
SKY COVER 6-9/10																								
6	5	5	7	9	11	11	10	9	7	7	6	6	6	5	6	8	6	8	8	7	6	5	5	7
SKY COVER ABOVE 9/10																								
6	5	5	5	5	4	5	6	5	5	4	3	3	2	1	2	3	3	3	3	4	5	6	6	4

## TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 WIND 6-14 KNOTS

HOUR																								BY	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	6Y
SKY COVER CLEAR																									
31	28	26	25	19	13	11	16	19	24	26	26	25	21	20	18	18	20	20	17	18	26	29	31	22	22
SKY COVER 1-5/10																									
10	9	9	9	9	11	7	9	11	13	16	18	22	28	27	25	21	21	18	17	14	13	12	12	15	15
SKY COVER 6-9/10																									
5	4	4	3	4	5	3	3	5	6	7	8	9	11	17	17	18	17	16	14	11	7	6	4	9	9
SKY COVER ABOVE 9/10																									
2	2	2	2	1	2	2	2	2	2	2	4	3	5	6	5	6	6	6	7	8	7	6	4	4	4

TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 IND 15-25 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER 1-5/10		5	6	4	2	1	1	1	1	1	2	1	2	2	2	2	3	2	3	4	3	3	4	7	7	3
SKY COVER 6-9/10		3	2	1	1	1	1	1	1	1	2	1	1	1	1	1	2	3	3	2	1	2	2	2	2	2
SKY COVER ABOVE 9/10		2	1	1	0	0	0	0	0	0	1	1	1	1	1	1	3	2	4	4	3	2	2	1	2	1
TOTAL OBSERVATIONS		1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	3	1	2	1	1	1	1

620 641 640 643 673 672 670 471 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	BY
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 649 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JULY  
WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY
SKY COVER 1-5/10	19	19	24	27	27	18	18	25	24	22	17	13	8	4	3	2	2	2	2	4	6	8	10	13	13
SKY COVER 6-9/10	13	17	21	25	32	36	32	28	29	27	27	27	29	25	21	18	15	16	12	14	18	19	14	13	22
SKY COVER ABOVE 9/10	18	14	16	15	15	22	22	21	18	14	12	13	14	13	17	13	14	16	18	18	17	13	16	15	16
TOTAL OBSERVATIONS	10	12	11	11	12	12	15	15	10	9	8	7	4	3	3	4	4	5	6	8	11	10	10	11	9
	689	684	684	695	694	692	692	692	692	693	693	693	696	695	693	693	695	680	652	650	640	642	642	641	16274

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND 6-14 KNOTS

HOUR																								BY	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
	SKY COVER CLEAR																								
2	13	8	8	3	1	2	1	3	7	8	8	6	3	3	3	2	3	3	4	4	5	9	12	12	6
	SKY COVER 1-5/10																								
2	10	7	5	5	4	3	3	3	7	10	15	18	23	27	23	24	22	20	21	17	15	15	17	11	14
	SKY COVER 6-9/10																								
6	7	6	3	2	4	4	4	3	5	6	9	10	12	20	23	28	29	26	24	23	17	12	10	12	13
	SKY COVER ABOVE 9/10																								
6	7	5	4	3	3	4	4	3	4	4	3	3	3	3	4	4	8	7	8	9	9	10	9	8	5

TOTAL OBSERVATIONS

659 684 684 695 694 692 692 692 693 693 693 693 696 695 695 693 693 693 680 652 650 640 642 642 641 1627

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0
SKY COVER 1-5/10	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0
SKY COVER 6-9/10	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	3	3	1	1	1	1	1	1
SKY COVER ABOVE 9/10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0

TOTAL OBSERVATIONS

659 684 684 684 695 694 692 692 692 693 693 693 693 696 695 693 693 695 680 652 650 640 642 642 641 16274

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

659 684 684 684 695 694 692 692 692 693 693 693 696 695 693 693 695 680 652 650 640 642 642 641 16274



DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST  
AIRC C-5 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR		24	29	31	35	34	19	20	26	27	27	22	16	8	5	3	2	3	3	4	9	13	15	17	18	17	
SKY COVER 1-5/10		17	20	21	22	25	35	33	31	28	24	27	31	30	24	22	10	17	16	18	19	22	19	17	17	23	
SKY COVER 6-9/10		14	12	14	14	15	23	25	23	22	18	14	14	14	17	16	18	16	18	17	19	16	15	14	14	17	
SKY COVER ABOVE 9/10		11	11	11	11	11	8	10	10	9	8	6	4	4	3	4	2	5	5	6	9	10	10	11	12	8	
TOTAL OBSERVATIONS																											
687 697 697 696 697 695 693 696 696 696 695 697 696 697 696 697 695 696 696 679 666 666 665 666 666 664 664 16494																											

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST  
WIND 6-14 KNOTS

HOUR		DAY																						
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR																								
11	9	8	6	6	5	3	3	5	5	9	7	5	4	3	3	2	4	5	4	6	10	11	13	6
SKY COVER 1-5/10																								
9	6	6	3	4	4	3	2	4	10	12	16	23	26	25	21	23	20	20	13	11	12	12	11	12
SKY COVER 6-9/10																								
6	6	6	4	2	3	3	2	3	5	7	8	11	17	22	27	26	25	21	14	12	8	8	8	10
SKY COVER ABOVE 9/10																								
5	6	4	4	2	2	2	2	2	3	3	3	3	3	5	7	6	7	8	10	9	9	7	6	5
TOTAL OBSERVATIONS																								

## TOTAL OBSERVATIONS

**087**   **697**   **697**   **694**   **697**   **695**   **694**   **694**   **694**   **694**

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST  
ENDING 15-25 KNOTS

HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	DAY MONTH
	SKY COVER	CLEAR																							
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SKY COVER	1-5/10																							
1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0
	SKY COVER	6-9/10																							
1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	0	1
	SKY COVER	ABOVE 9/10																							
1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0

**TOTAL OBSERVATIONS**

[illegible]

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH BY
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	697	697	696	697	695	693	696	696	696	696	695	697	696	697	695	696	696	679	666	666	665	666	664	16494

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND 0-5 KNOTS

HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR		36	38	42	44	46	41	36	42	42	39	35	30	21	13	10	10	11	15	23	28	31	28	31	32	30
SKY COVER 1-5/10		14	15	16	16	16	23	25	22	20	19	16	18	20	20	20	19	19	18	20	18	14	15	17	15	18
SKY COVER 6-9/10		10	10	10	9	10	10	15	14	13	10	9	8	7	10	10	12	9	11	11	10	9	7	10	8	10
SKY COVER ABOVE 9/10		7	7	8	9	10	10	10	10	9	8	7	6	6	5	4	3	4	5	5	8	8	9	7	8	7

TOTAL OBSERVATIONS

672 670 668 671 671 669 667 667 667 668 668 670 671 670 668 670 660 651 653 651 650 652 653 15948

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND 6-14 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																										
17	16	13	11	11	10	7	4	7	4	7	10	13	15	18	17	17	16	14	15	11	13	17	20	19	19	14
SKY COVER 1-5/10																										
7	7	4	4	3	3	4	3	4	3	4	7	11	12	15	21	22	22	22	18	13	8	9	9	6	7	10
SKY COVER 6-9/10																										
4	4	3	3	2	2	2	2	3	4	4	4	4	7	8	8	12	13	15	13	10	7	6	5	4	5	6
SKY COVER ABOVE 9/10																										
3	3	2	3	2	1	1	1	1	1	2	3	3	3	4	3	4	4	3	3	5	5	4	3	3	3	3

TOTAL OBSERVATIONS

672 670 668 671 671 671 669 667 667 667 667 667 667 668 670 671 670 668 670 660 651 653 651 650 652 653 15948

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND 15-25 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER																										BY
CLEAR																										
2	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	2	2	2	1
1-5/10																										
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	1	1	0	0
6-9/10																										
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
ABOVE 9/10																										
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	

TOTAL OBSERVATIONS

672 670 668 671 671 671 669 667 667 667 667 668 668 670 670 671 670 668 670 660 651 653 651 650 652 653 15948

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

672 670 668 671 671 671 669 667 667 667 667 668 668 670 671 670 668 670 660 651 653 651 650 652 653 15948



TABLE V (CONT.)

DAILY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND 0-5 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR		43	46	49	50	52	48	41	43	40	39	37	35	30	28	23	23	26	33	40	42	40	42	41	44	39
SKY COVER 1-5/10		10	10	12	12	14	19	19	13	16	15	13	12	12	14	11	12	14	15	12	13	11	11	9	10	13
SKY COVER 6-9/10		6	6	6	5	5	7	12	13	13	10	9	9	8	8	9	7	7	9	10	8	6	6	7	6	8
SKY COVER ABOVE 9/10		5	6	5	6	6	6	7	8	7	8	6	6	5	4	5	5	5	5	6	5	5	4	5	6	6

TOTAL OBSERVATIONS

703 703 704 704 703 707 705 716 706 704 707 704 702 701 704 701 682 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
20	20	16	17	14	14	10	7	7	9	12	15	15	17	16	20	21	19	14	12	15	18	18	20	18	16
SKY COVER 1-5/10																									
5	4	4	3	4	5	6	3	3	6	7	9	11	12	13	14	13	13	7	6	5	6	6	5	5	7
SKY COVER 6-9/10																									
3	3	2	2	2	3	2	2	3	2	4	5	6	9	7	9	10	8	8	5	3	5	4	3	2	5
SKY COVER ABOVE 9/10																									
3	3	3	3	2	2	2	2	3	3	3	3	3	3	5	4	4	4	5	4	5	4	5	3	3	3

TOTAL OBSERVATIONS

703 703 704 704 704 703 707 705 706 706 706 704 707 704 707 704 702 701 704 701 682 678 679 678 680 678 678 16721

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
WIND 15-25 KNOTS

HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	DAY MONTH
	SKY COVER CLEAR																								
2	1	1	1	1	1	0	1	1	1	2	2	1	1	1	2	1	1	2	2	3	3	3	3	3	2
	SKY COVER 1-5/10																								
1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	2	2	1	1	0	0	0	0	1	1
	SKY COVER 6-9/10																								
1	1	1	0	0	0	0	1	0	0	0	0	1	1	2	1	1	1	1	1	1	0	1	0	1	1
	SKY COVER ABOVE 9/10																								
1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	1	1	0

## TOTAL OBSERVATIONS

703 703 704 704 703 707 705 706 706 704 707 704 702 701 704 701 682 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

703 703 704 704 704 703 707 705 706 706 704 704 707 704 702 701 704 701 682 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND 0-5 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																										
38	40	39	43	41	43	35	33	34	31	29	28	25	23	23	23	21	24	28	29	32	30	35	35	36	36	32
SKY COVER 1-5/10																										
11	12	11	11	11	13	18	15	15	14	12	12	12	10	10	10	11	13	15	14	13	13	10	11	11	11	12
SKY COVER 6-9/10																										
6	6	6	7	7	7	10	14	14	11	12	11	11	11	10	10	9	8	12	10	8	8	7	7	6	6	9
SKY COVER ABOVE 9/10																										
8	9	8	9	8	8	8	11	13	14	12	12	10	10	10	10	10	10	10	11	10	9	9	8	9	10	10

TOTAL OBSERVATIONS

665 667 667 666 667 670 566 666 664 666 666 666 667 664 664 664 663 664 663 663 660 644 644 644 644 643 648 158

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - AMITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
WIND 6-14 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																										
16	15	17	12	14	12	10	7	8	11	14	13	13	15	15	16	15	16	15	9	13	15	17	16	17	17	14
SKY COVER 1-5/10																										
6	4	5	5	5	4	5	7	4	4	6	7	9	11	11	10	8	8	8	7	7	6	8	7	7	7	7
SKY COVER 6-9/10																										
3	3	3	2	2	3	4	4	3	4	4	5	6	5	8	9	7	5	5	4	4	4	3	4	4	3	4
SKY COVER ABOVE 9/10																										
3	3	3	3	4	3	4	3	4	5	5	4	7	6	5	6	6	6	5	5	4	3	5	5	4	4	4

TOTAL OBSERVATIONS

665 667 667 666 667 670 666 666 664 666 666 667 664 664 663 664 663 664 663 644 645 644 644 644 643 648 15843

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND 15-25 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY
4	3	3	3	3	3	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	3	2	2	3	2
	SKY COVER 1-5/10	2	2	3	2	2	2	2	1	1	2	2	3	3	3	2	3	3	3	2	3	2	1	2	2	2
	SKY COVER 6-9/10	2	1	0	1	1	1	1	2	1	1	1	2	1	2	2	2	2	2	2	2	1	1	1	1	1
	SKY COVER ABOVE 9/10	0	0	1	0	1	0	1	1	1	1	0	1	1	1	2	1	1	1	1	1	2	1	1	1	1

TOTAL OBSERVATIONS

665 667 667 666 667 670 666 666 664 666 666 667 664 664 663 664 663 664 663 660 644 645 644 644 643 648 1584

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

665 667 667 666 667 670 666 666 664 666 666 666 667 664 664 664 663 664 663 660 644 645 644 644 643 648 15843



TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND 0-5 KNOTS

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																										
38	37	41	42	43	43	39	31	31	31	29	27	27	27	23	22	20	21	24	30	31	32	33	35	36	37	32
SKY COVER 1-5/10																										
9	13	12	10	9	10	15	18	15	13	13	14	13	13	11	9	11	10	12	12	11	12	12	10	10	13	12
SKY COVER 6-9/10																										
9	8	8	7	8	8	8	12	13	12	12	12	12	12	14	13	13	12	13	14	9	8	8	7	7	7	10
SKY COVER ABOVE 9/10																										
9	9	9	10	11	10	11	12	16	16	16	17	14	14	14	13	14	13	13	12	11	9	8	9	9	10	12

TOTAL OBSERVATIONS

666 668 669 669 669 670 666 668 680 678 677 680 677 678 676 676 677 677 654 647 647 645 643 646 649 15979

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR																									BY
14 13 11 11 12 11 7 6 6 7 10 10 9 9 11 11 8 4 7 12 13 13 12 12 10																									10
SKY COVER 1-5/10																									
4 4 4 4 4 4 5 5 4 4 4 4 6 9 8 8 8 9 6 9 7 7 7 6 5 6																									6
SKY COVER 6-9/10																									
4 3 2 3 3 3 3 4 5 3 4 3 5 6 7 8 8 8 6 5 6 2 2 3 2 4																									4
SKY COVER ABOVE 9/10																									
4 3 3 3 3 3 3 3 4 5 4 4 4 4 4 6 6 5 3 3 3 5 5 7 5 4																									4

TOTAL OBSERVATIONS

666 668 669 669 670 668 668 680 678 677 680 677 678 678 676 678 677 654 647 647 643 646 649 1597

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR																									BY
3	3	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	2	3	2	2
SKY COVER 1-5/10																									
3	3	3	2	2	2	2	2	2	2	3	3	3	3	3	4	3	4	4	3	4	3	2	2	2	3
SKY COVER 6-9/10																									
2	2	1	2	1	1	1	1	2	2	2	2	2	2	3	3	3	3	4	3	2	2	2	1	2	2
SKY COVER ABOVE 9/10																									
1	1	2	0	1	2	1	1	1	1	2	2	2	2	1	2	2	3	2	2	3	2	1	2	2	2

TOTAL OBSERVATIONS

666 668 669 669 669 670 668 668 668 680 678 677 660 677 678 676 678 677 654 647 647 647 643 646 649 15979

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND ABOVE 25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH
SKY COVER CLEAR	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
SKY COVER 1-5/10	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0
SKY COVER 6-9/10	0	1	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0
SKY COVER ABOVE 9/10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

TOTAL OBSERVATIONS

666 668 669 669 670 668 668 680 678 677 680 677 678 676 676 678 677 654 647 647 645 643 646 649 15979

**SECTION III**

**SKY COVER, VISIBILITY, AND CEILINGS**

102a

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TABLE VI  
MONTHLY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER IN PERCENT  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH	SKY COVER			
	CLEAR	1-5/10	6-9/10	ABOVE 9/10
JAN	39	23	18	20
FEB	41	23	17	19
MAR	38	24	19	18
APR	44	25	18	14
MAY	45	27	18	11
JUN	43	31	17	9
JUL	19	37	29	15
AUG	23	36	28	13
SEP	44	29	17	10
OCT	57	21	13	9
NOV	49	22	15	15
DEC	44	21	17	18

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF JANUARY

## HOUR

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
47	49	49	49	50	49	43	35	35	33	33	32	33	32	31	31	31	31	33	39	42	44	45	46

## SKY COVER 1-5/10

22	20	21	21	19	21	25	27	22	22	23	24	23	23	25	22	22	24	23	23	23	22	24	23
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

## SKY COVER 6-9/10

13	13	14	13	13	12	15	18	18	21	20	19	19	22	22	25	26	22	22	20	20	18	16	15
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

## SKY COVER ABOVE 9/10

17	17	16	17	18	19	17	21	25	24	24	24	24	23	23	22	22	23	22	18	16	16	16	16
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

## TOTAL OBSERVATIONS

651	657	657	657	657	658	660	662	662	663	662	663	659	660	662	661	660	649	640	638	640	639	639	640
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



TABLE VI (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																								
50 53 53 53 52 53 42 36 38 37 36 34 33 31 32 31 31 33 34 39 45 48 49 50																								
SKY COVER 1-5/10																								
22 19 20 20 21 20 27 24 21 24 22 24 23 25 23 22 23 23 24 23 22 23 22 23 22																								
SKY COVER 6-9/10																								
13 12 12 12 10 10 13 18 19 17 18 21 21 21 20 22 24 24 22 22 20 16 16 14 14																								
SKY COVER ABOVE 9/10																								
15 15 15 15 16 17 18 21 23 22 24 22 22 23 24 23 23 23 22 21 17 15 14 14 14																								
TOTAL OBSERVATIONS	602	602	602	602	603	604	601	602	602	602	602	602	603	602	602	603	602	592	585	584	585	585	583	583

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951-1973

MONTH OF MARCH

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																									
49	51	50	49	47	35	35	37	35	33	32	31	28	27	30	29	29	31	36	41	45	46	48			
SKY COVER 1-5/10																									
27	20	20	20	24	30	26	23	26	27	27	25	26	26	25	25	25	24	24	25	24	25	24	25	23	
SKY COVER 6-9/10																									
14	14	16	15	16	15	19	20	18	18	19	21	23	24	24	23	24	25	25	20	18	18	15	15		
SKY COVER ABOVE 9/10																									
14	16	14	15	14	14	16	19	21	20	21	20	21	22	23	22	23	21	20	19	16	14	14	15		
TOTAL OBSERVATIONS		664	666	664	665	665	662	663	662	662	662	661	665	663	663	663	645	647	636	638	639	640	638	639	

TABLE VI (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																								
57 58 59	58	57	48	43	44	43	42	39	38	35	34	32	31	32	32	33	38	45	48	53	53			
SKY COVER 1-5/10																								
21 22 23	21	22	27	24	23	24	24	27	27	28	28	28	28	26	26	25	25	26	22	24				
SKY COVER 6-9/10																								
11 9 10 12 13 17	9	10	12	13	17	22	20	18	19	20	20	23	23	21	22	21	21	23	22	18	14	13	10	
SKY COVER ABOVE 9/10																								
11 11 10 9 9 9 11 14 15 15 15 15 15 16 19 19 19 20 18 15 12 12 12 12																								
TOTAL OBSERVATIONS	640	641	641	640	642	641	642	641	641	640	640	640	642	641	640	641	607	599	598	599	598	598	598	598

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF MAY

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
60	60	63	62	57	44	47	47	46	45	44	41	37	33	31	29	28	30	32	34	43	49	55	57
SKY COVER 1-5/10																							
21	22	20	20	25	30	22	24	25	25	28	28	31	32	32	33	32	31	32	33	29	25	21	22
SKY COVER 6-9/10																							
11	11	11	11	11	17	19	17	17	18	18	20	21	23	24	23	25	25	21	19	16	15	15	12
SKY COVER ABOVE 9/10																							
8	7	7	7	7	9	12	12	12	12	10	11	11	12	13	14	14	14	15	13	12	11	10	9

TOTAL OBSERVATIONS

682 682 684 684 697 697 695 695 696 694 696 695 695 695 695 694 695 661 654 654 640 638 639 638

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

## MONTH OF JUNE

## HOUR

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

## SKY COVER CLEAR

55 57 58 59 50 39 43 47 51 51 50 47 40 32 28 27 27 27 31 33 37 45 50 54

## SKY COVER 1-5/10

23 24 24 24 31 39 34 31 27 29 29 32 37 42 41 40 36 34 31 29 28 26 25 23

## SKY COVER 6-9/10

13 10 10 10 13 16 15 13 14 13 15 15 16 18 24 26 28 27 27 25 21 15 12 11

## SKY COVER ABOVE 9/10

9 8 7 7 6 7 7 8 7 7 6 7 7 7 8 8 9 11 11 13 14 13 12 12

## TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JULY

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
31	33	34	35	30	19	20	26	27	30	26	21	15	7	6	4	5	6	7	7	11	18	22	27
SKY COVER 1-5/10																							
26	27	28	31	38	40	35	32	36	37	42	46	52	52	45	43	38	37	34	32	34	35	32	25
SKY COVER 6-9/10																							
25	21	22	19	17	26	26	24	23	20	21	23	26	34	42	44	45	45	43	35	26	26	26	29
SKY COVER ABOVE 9/10																							
18	19	17	16	15	15	18	18	14	13	11	10	7	7	8	9	12	13	15	18	20	21	20	19
TOTAL OBSERVATIONS																							
659	684	684	684	695	694	693	693	693	694	694	694	696	695	693	693	695	680	652	650	640	642	642	641

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																									
35	39	39	41	40	24	24	24	28	32	32	32	32	23	14	9	6	5	5	7	9	13	18	24	28	31
SKY COVER 1-5/10																									
27	26	27	26	29	39	36	33	32	32	34	39	48	53	51	47	40	40	37	38	33	33	32	30	29	
SKY COVER 6-9/10																									
20	18	19	18	18	26	28	26	25	23	21	22	22	26	34	38	46	44	43	39	33	29	24	22	22	
SKY COVER ABOVE 9/10																									
17	17	15	15	13	11	12	13	11	10	9	7	7	7	6	9	9	11	13	15	21	20	20	20	19	
TOTAL OBSERVATIONS																									
687	697	697	696	697	695	693	696	696	696	696	695	697	696	697	695	696	696	679	666	666	665	666	666	666	664

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

## MONTH OF SEPTEMBER

## HOUR

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
54	55	56	57	51	43	46	49	49	49	49	44	38	30	26	26	25	29	34	41	49	50	51	52

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## SKY COVER 1-5/10

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 1-5/10																							
20	21	21	20	19	26	29	25	24	27	27	32	37	42	42	42	42	37	33	28	24	26	24	24

## SKY COVER 6-9/10

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 6-9/10																							
14	13	13	12	12	12	17	17	16	14	14	15	16	19	23	26	25	25	22	18	15	12	13	12

## SKY COVER ABOVE 9/10

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER ABOVE 9/10																							
11	10	11	12	12	11	11	11	11	10	10	9	10	8	8	7	8	8	11	13	13	12	11	12

## TOTAL OBSERVATIONS

703	700	697	701	701	701	699	697	697	697	697	698	698	700	701	700	698	700	690	681	683	681	680	682	683
TOTAL OBSERVATIONS																								



TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
66	68	67	68	68	63	52	51	51	53	54	52	49	46	45	46	46	49	54	60	61	63	64	66
SKY COVER 1-5/10																							
16	14	16	16	17	19	25	21	23	22	23	23	24	27	27	27	29	23	20	18	18	18	16	16
SKY COVER 6-9/10																							
9	10	9	7	7	10	14	17	16	15	13	16	18	17	19	18	15	19	17	12	11	10	11	9
SKY COVER ABOVE 9/10																							
9	8	9	9	9	8	9	11	10	10	10	9	9	9	9	9	9	9	9	10	9	9	9	9

TOTAL OBSERVATIONS

734 734 735 735 734 738 738 736 737 737 737 734 738 733 731 729 733 730 711 709 710 709 711 709 710

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																								
59	59	61	60	59	59	47	43	43	43	44	44	43	41	40	40	40	41	39	44	49	51	54	55	58
SKY COVER 1-5/10																								
19	18	18	19	18	19	26	22	20	20	20	21	23	24	24	23	23	24	26	24	23	23	20	20	20
SKY COVER 6-9/10																								
10	11	9	10	10	11	15	20	18	17	18	18	18	18	19	20	20	18	19	17	14	13	11	12	9
SKY COVER ABOVE 9/10																								
12	12	11	11	12	11	12	15	18	19	18	18	16	17	17	17	17	17	16	15	14	14	15	13	13
TOTAL OBSERVATIONS	695	697	696	697	700	696	696	693	696	696	697	694	694	694	693	694	690	674	675	673	674	673	678	678

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
54	53	54	55	57	55	47	37	38	38	38	37	34	33	33	34	33	34	41	45	48	49	51	50
SKY COVER 1-5/10																							
17	20	20	18	16	17	24	27	22	20	21	22	25	23	20	21	22	22	24	23	23	22	20	22
SKY COVER 6-9/10																							
16	13	11	11	12	12	13	19	18	19	18	20	21	24	25	24	24	24	18	16	13	13	12	11
SKY COVER ABOVE 9/10																							
13	14	14	15	15	15	15	17	22	23	23	20	21	20	22	22	20	20	18	15	16	16	17	17
TOTAL OBSERVATIONS																							
697	699	700	700	701	700	700	700	712	710	709	712	707	709	707	709	708	685	678	678	674	676	679	679

TABLE VII

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW OBSERVATIONS
0	3	651	80	38	0
1	3	657	80	37	0
2	3	657	80	37	0
3	3	657	80	37	0
4	3	657	80	37	0
5	3	658	80	37	0
6	4	660	80	38	0
7	4	662	100	49	0
8	4	662	90	55	0
9	5	663	100	58	0
10	5	662	100	58	0
11	5	663	100	59	0
12	5	658	100	58	1
13	5	659	100	58	0
14	5	661	100	58	0
15	5	660	100	57	1
16	5	659	100	57	1
17	5	648	100	56	1
18	4	640	85	43	0
19	4	638	80	38	0
20	4	640	70	38	1
21	4	639	70	38	0
22	3	639	80	38	0
23	3	640	80	38	0
BY MONTH	4	15690	100	47	0
					15691

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

SKY COVER (TENTHS)			VISIBILITY (MILES)				
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR
0	3	602	70	36	0	602	0
1	3	602	70	36	0	603	1
2	3	602	70	36	0	602	2
3	3	602	70	36	0	602	3
4	3	603	70	36	0	603	4
5	3	604	70	35	0	604	5
6	3	601	80	38	0	601	6
7	4	602	85	50	0	602	7
8	4	602	90	53	0	602	8
9	4	602	100	54	0	602	9
10	4	602	100	54	0	602	10
11	4	602	100	54	1	602	11
12	5	604	100	55	0	604	12
13	5	603	100	54	0	603	13
14	5	603	90	53	0	603	14
15	5	604	100	53	0	604	15
16	5	603	85	53	1	603	16
17	5	593	85	52	1	593	17
18	4	585	85	46	1	585	18
19	4	584	80	37	1	584	19
20	3	584	70	36	0	584	20
21	3	585	70	36	1	585	21
22	3	585	70	36	1	585	22
23	3	583	70	36	0	583	23
BY MONTH	4	14342	100	44	0	14343	

TABLE VII: (CONT.)

MEAN, SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF MARCH

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	TOTAL OBSERVATIONS
0	3	664	60	36	664
1	3	666	80	36	666
2	3	664	60	36	664
3	3	665	60	36	665
4	3	665	60	35	665
5	3	665	80	36	665
6	4	662	100	45	662
7	4	663	90	50	663
8	4	662	90	52	662
9	4	662	100	52	663
10	4	662	100	52	663
11	4	661	100	52	661
12	5	665	100	51	665
13	5	663	100	49	663
14	5	663	100	49	663
15	5	663	100	48	663
16	5	665	100	47	665
17	5	647	100	48	647
18	5	636	100	48	636
19	4	638	85	36	639
20	4	639	60	35	639
21	3	640	60	35	640
22	3	638	60	35	638
23	3	639	60	35	639
BY MONTH	4	15757	100	43	15760

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF APRIL

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	TOTAL OBSERVATIONS
0	2	640	70	34	640
1	2	641	70	34	641
2	2	641	70	35	641
3	2	640	70	35	640
4	2	641	70	35	641
5	3	640	85	40	640
6	3	642	90	49	642
7	3	641	90	49	641
8	4	642	90	49	642
9	4	641	90	48	641
10	4	641	85	48	641
11	4	640	85	47	640
12	4	640	90	45	640
13	4	642	90	44	642
14	4	641	90	43	641
15	4	640	90	42	640
16	4	641	90	41	641
17	4	607	85	43	607
18	4	599	85	43	599
19	4	598	85	37	598
20	3	599	70	33	599
21	3	598	60	33	598
22	3	598	60	34	598
23	3	598	80	34	598
BY MONTH	3	15051	90	41	15091

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEA MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	TOTAL OBSERVATIONS
0	2	682	70	36	682
1	2	682	70	37	682
2	2	684	70	37	684
3	2	684	70	37	684
4	2	697	70	38	697
5	3	697	90	49	697
6	3	695	85	49	695
7	3	695	85	49	695
8	3	696	85	50	696
9	3	694	85	49	694
10	3	696	85	50	696
11	3	695	85	49	695
12	4	695	85	49	695
13	4	695	85	47	695
14	4	695	85	47	695
15	4	694	85	46	694
16	4	695	85	45	695
17	4	661	85	46	661
18	4	654	85	46	654
19	4	654	85	43	654
20	3	640	70	35	640
21	3	638	80	36	638
22	3	639	70	36	639
23	2	638	70	36	638
BY MONTH	3	16295	90	44	16295



TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	TOTAL OBSERVATIONS
0	3	620	80	36	620
1	2	641	60	37	641
2	2	640	60	37	640
3	2	643	60	37	643
4	2	673	80	40	673
5	3	672	90	52	672
6	3	670	85	50	670
7	3	671	65	49	671
8	2	669	85	50	669
9	2	671	85	50	671
10	3	670	85	50	670
11	3	672	85	50	672
12	3	673	85	50	673
13	3	671	85	49	671
14	4	670	85	48	670
15	4	669	95	48	669
16	4	672	85	47	672
17	4	660	65	48	660
18	4	633	85	47	633
19	4	631	95	47	631
20	4	602	80	37	602
21	3	602	70	36	602
22	3	601	60	36	601
23	3	603	60	36	603
BY MONTH	3	15599	90	45	15599

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JULY

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW
0	4	659	80	37	1
1	4	684	70	37	3
2	4	684	70	37	3
3	4	684	70	37	1
4	4	695	80	38	3
5	5	694	85	47	1
6	5	693	85	47	3
7	4	693	90	46	3
8	4	693	90	46	3
9	4	694	85	47	2
10	4	694	85	47	3
11	4	694	85	47	3
12	4	696	85	47	3
13	5	695	85	47	2
14	5	693	85	46	4
15	6	693	85	47	1
16	6	695	85	47	3
17	6	680	85	48	0
18	6	652	85	49	1
19	6	650	65	48	2
20	6	640	80	39	1
21	5	642	80	37	1
22	5	642	80	38	1
23	5	641	80	37	1
BY MONTH	5	16280	90	44	0
					16279

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

SKY COVER (TENTHS)				VISIBILITY (MILES)			
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR
0	4	687	70	37	0	687	0
1	4	697	60	37	1	697	1
2	4	697	60	37	4	697	2
3	4	696	60	37	7	696	3
4	3	697	60	37	1	697	4
5	4	695	80	42	1	695	5
6	4	693	90	48	2	693	6
7	4	696	85	47	5	696	7
8	4	696	85	47	7	696	8
9	4	696	85	47	5	696	9
10	3	695	85	48	8	695	10
11	4	697	85	48	5	697	11
12	4	696	85	48	2	696	12
13	5	697	100	48	2	697	13
14	5	695	100	48	4	695	14
15	6	696	90	48	3	696	15
16	6	696	90	48	4	696	16
17	6	679	90	49	2	679	17
18	6	666	90	49	1	666	18
19	6	666	90	45	0	666	19
20	5	665	90	38	0	665	20
21	5	666	70	38	4	666	21
22	4	666	70	38	5	666	22
23	4	664	70	37	3	664	23
BY MONTH	4	16494	100	44	0	16494	

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

SKY COVER (TENTHS)			VISIBILITY (FILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	TOTAL OBSERVATIONS
0	3	703	70	37	703
1	3	700	70	37	700
2	3	697	70	37	697
3	3	701	70	37	701
4	3	701	70	37	701
5	3	701	40	38	701
6	3	699	90	49	699
7	3	697	85	48	697
8	3	697	85	47	697
9	3	697	90	47	697
10	3	698	85	47	698
11	3	699	90	48	699
12	3	700	90	48	700
13	3	701	90	49	701
14	4	700	90	49	700
15	4	698	90	50	698
16	4	700	90	50	700
17	4	690	90	51	690
18	4	681	90	49	681
19	3	683	80	39	683
20	3	681	80	38	681
21	3	680	80	38	680
22	3	682	80	38	682
23	3	693	80	38	693
BY MONTH	3	16668	90	44	16668

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	TOTAL OBSERVATIONS
0	2	734	70	37	734
1	2	734	70	36	734
2	2	735	70	36	736
3	2	735	70	36	735
4	2	735	60	36	735
5	2	734	70	37	734
6	3	738	90	50	738
7	3	736	90	50	736
8	3	737	90	50	737
9	3	737	90	50	737
10	3	734	90	50	734
11	3	738	90	50	738
12	3	733	90	50	733
13	3	731	90	50	731
14	3	729	90	50	729
15	3	733	90	51	733
16	3	730	90	51	730
17	3	711	90	52	711
18	3	709	85	44	709
19	2	710	60	39	710
20	2	709	60	38	709
21	2	711	60	38	711
22	2	709	60	38	709
23	2	710	70	37	710
BY MONTH	2	17452	90	44	17453

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

SKY COVER (TENTHS)		VISIBILITY (MILES)			TOTAL OBSERVATIONS	MEAN	LOW	OBSERVATIONS	TOTAL	HOUR
HOUR	MEAN	HIGH	MEAN	LOW						
0	2	60	37	1	695			695		0
1	2	60	37	1	697			697		1
2	2	60	37	1	697			697		2
3	2	60	37	0	696			696		3
4	2	60	37	1	697			697		4
5	2	60	37	1	700			700		5
6	3	60	42	0	696			696		6
7	4	90	53	0	696			696		7
8	4	90	53	0	693			693		8
9	4	85	54	0	696			696		9
10	4	85	54	1	696			696		10
11	4	85	54	1	697			697		11
12	4	85	54	2	694			694		12
13	4	90	54	2	694			694		13
14	4	85	54	1	693			693		14
15	4	85	54	1	694			694		15
16	4	85	55	0	693			693		16
17	4	90	54	0	690			690		17
18	3	80	40	0	674			674		18
19	3	70	39	2	675			675		19
20	3	70	39	0	673			673		20
21	3	60	38	0	674			674		21
22	3	60	38	1	673			673		22
23	3	60	37	1	678			678		23
BY MONTH	3	90	45	0	16561			16562		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

SKY COVER (TENTHS)			VISIBILITY (MILES)		
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW OBSERVATIONS
0	3	697	60	38	0
1	3	699	60	38	0
2	3	700	60	37	0
3	3	700	60	37	0
4	3	700	60	37	0
5	3	701	60	37	0
6	3	700	75	38	0
7	4	700	90	52	0
8	4	712	100	54	0
9	4	710	100	55	0
10	4	709	100	56	0
11	4	712	100	56	0
12	4	707	100	57	0
13	5	709	100	56	0
14	5	707	100	56	0
15	5	709	100	55	0
16	5	708	100	56	0
17	4	685	100	55	0
18	4	678	80	39	0
19	3	678	80	38	0
20	3	676	60	38	0
21	3	674	70	38	0
22	3	676	70	38	0
23	3	679	70	38	0
BY MONTH	4	16726	100	46	0
					16726

TABLE VIII

VISIBILITY OCCURRENCES BY MEAN NUMBER OF DAYS PER MONTH  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH	VISIBILITY (MILES)		
	<2.5	>3<6	>7<9
JAN	2	3	3
FEB	2	3	4
MAR	2	4	4
APR	1	4	4
MAY	1	2	3
JUN	1	2	3
JUL	1	2	3
AUG	1	2	3
SEP	0	1	3
OCT	1	1	3
NOV	1	2	3
DEC	2	3	4



TABLE IX  
DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JANUARY									
HOUR	VISIBILITY (MILES)						> 20	OBSERVATIONS	
	<1	<3	<6	<10	<20				
0	1	1	2	3	10		90	563	
1	1	1	2	3	11		89	567	
2	1	2	3	4	11		89	567	
3	1	2	2	4	11		89	567	
4	1	1	2	4	11		89	567	
5	1	1	2	4	11		89	568	
6	1	2	3	5	11		89	569	
7	1	2	2	5	10		90	571	
8	1	2	3	5	11		89	570	
9	2	3	3	5	9		91	571	
10	1	2	3	5	9		91	570	
11	1	1	2	5	10		90	571	
12	1	1	3	5	10		90	568	
13	0	1	2	4	10		90	568	
14	0	1	2	5	11		89	570	
15	1	1	2	5	14		86	569	
16	0	1	2	4	12		88	568	
17	0	1	2	5	10		90	552	
18	0	1	2	5	14		86	547	
19	1	1	2	5	12		88	545	
20	0	1	2	5	11		89	547	
21	1	1	2	4	11		89	546	
22	1	1	2	4	11		89	546	
23	1	1	2	4	11		89	547	
BY MONTH	1	1	2	4	11		89	13494	

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY									
HOUR	VISIBILITY (MILES)					OBSERVATIONS			
	<1	<3	<6	<10	<20	>20			
0	1	2	3	8	17	83	516		
1	1	2	2	6	18	82	517		
2	1	2	3	6	17	83	516		
3	1	2	3	6	17	83	516		
4	1	2	3	6	18	82	517		
5	1	2	3	7	20	80	518		
6	1	1	2	5	18	82	515		
7	1	2	3	7	15	85	516		
8	1	2	3	8	15	85	516		
9	1	3	4	8	16	84	516		
10	1	2	3	7	14	86	516		
11	1	2	3	7	16	84	516		
12	1	1	3	8	15	85	518		
13	1	2	4	10	17	83	517		
14	1	2	4	9	16	84	517		
15	1	1	3	8	16	84	518		
16	1	2	5	8	17	83	518		
17	1	2	5	9	17	83	503		
18	0	1	3	7	20	80	499		
19	0	1	3	7	18	82	498		
20	1	2	2	7	17	83	499		
21	0	2	3	6	17	83	499		
22	0	2	3	7	16	84	499		
23	1	2	3	7	16	84	497		
BY MONTH	1	2	3	7	17	83	12277		

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH						
HOUR	VISIBILITY (MILES)					
	≤1	≤3	≤6	≤10	≤20	>20
0	0	0	1	6	18	82
1	0	1	1	5	17	83
2	0	0	2	5	18	82
3	0	0	1	5	18	82
4	0	1	1	5	19	81
5	0	0	2	5	18	82
6	0	0	1	5	15	85
7	0	0	2	6	16	84
8	0	1	3	6	17	83
9	1	2	3	7	16	84
10	0	1	2	7	17	83
11	0	1	3	9	18	82
12	1	2	4	10	19	81
13	1	2	5	11	21	79
14	1	2	5	12	22	78
15	1	2	5	12	21	79
16	1	2	5	12	22	78
17	1	1	5	11	21	79
18	1	1	5	10	21	79
19	1	2	3	9	22	78
20	1	2	3	9	21	79
21	0	1	3	8	21	79
22	0	1	3	7	20	80
23	0	0	1	7	20	80
BY MONTH	0	1	3	8	19	81
						13380

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	VISIBILITY (MILES)					OBSERVATIONS
	<1	<3	<6	<10	<20	>20
0	0	0	1	7	23	77
1	0	1	1	7	23	77
2	0	1	2	6	23	77
3	0	1	1	5	22	78
4	0	1	1	6	22	78
5	0	1	1	5	18	82
6	0	1	2	6	15	85
7	0	1	3	6	17	83
8	0	0	2	6	16	84
9	0	1	2	6	17	83
10	0	0	3	8	19	81
11	0	1	4	9	21	79
12	0	1	4	11	23	77
13	0	1	5	12	27	73
14	0	2	5	13	28	72
15	0	1	6	15	29	71
16	1	2	5	14	30	70
17	0	2	6	13	30	70
18	0	2	5	13	27	73
19	0	1	3	10	28	72
20	0	1	3	9	27	73
21	0	1	3	11	25	75
22	0	1	1	8	24	76
23	0	0	2	9	24	76
BY MONTH	0	1	3	9	23	77
						12766

TABLE IX (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY							OBSERVATIONS
HOUR	<1	<3	<6	<10	<20	>20	
0	0	0	0	3	14	86	579
1	0	0	0	3	15	85	579
2	0	0	0	3	14	86	580
3	0	0	0	3	14	86	580
4	0	0	0	2	11	89	593
5	0	0	0	1	9	91	593
6	0	0	0	1	9	91	591
7	0	0	0	2	9	91	591
8	0	0	1	2	8	92	592
9	0	0	1	2	7	93	590
10	0	0	1	2	8	92	592
11	0	0	0	2	8	92	591
12	0	0	1	2	9	91	591
13	0	0	1	4	10	90	591
14	0	0	1	4	11	89	591
15	0	0	2	5	16	84	590
16	1	1	2	6	17	83	591
17	0	1	2	7	18	82	551
18	0	1	2	5	19	81	549
19	0	1	2	6	20	80	549
20	0	0	1	5	20	80	535
21	0	0	1	4	18	82	533
22	0	1	1	4	16	84	534
23	0	0	1	5	17	83	533
BY MONTH	0	0	1	3	13	87	13789

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	VISIBILITY (MILES)					OBSERVATIONS
	<1	<3	<6	<10	>20	
0	0	0	1	3	13	516
1	0	0	0	3	13	537
2	0	0	0	2	13	536
3	0	0	1	2	13	539
4	0	0	1	2	10	569
5	0	0	1	2	7	568
6	0	0	1	3	8	566
7	0	1	1	4	10	567
8	0	0	1	3	9	565
9	0	1	1	2	9	567
10	0	1	1	2	8	566
11	0	1	1	1	10	568
12	0	1	1	2	10	569
13	0	1	1	2	10	567
14	0	1	1	3	11	566
15	0	0	1	3	13	565
16	0	1	1	4	14	568
17	0	0	1	5	14	552
18	0	0	1	5	15	529
19	0	1	1	6	17	527
20	0	1	2	6	16	498
21	0	0	0	5	16	498
22	0	0	0	5	14	497
23	0	0	1	4	13	499
BY MONTH	0	0	1	3	12	13099
					88	

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY		VISIBILITY (MILES)						OBSERVATIONS
HOUR		<1	<3	<6	<10	<20	>20	
0		0	1	1	3	10	90	555
1		0	0	1	3	11	89	581
2		0	0	0	2	11	89	581
3		0	0	0	2	10	90	581
4		0	0	0	2	10	90	592
5		0	0	0	2	10	90	591
6		0	0	1	3	12	88	590
7		0	1	1	4	13	87	590
8		0	1	2	3	13	87	589
9		0	1	1	3	11	89	590
10		0	1	1	2	12	88	590
11		0	0	1	2	10	90	590
12		0	0	0	1	9	91	592
13		0	0	0	1	9	91	592
14		0	0	1	2	9	91	590
15		0	1	1	3	10	90	590
16		0	0	1	3	9	91	591
17		0	0	1	4	9	91	574
18		0	0	1	2	9	91	549
19		0	0	1	4	11	89	547
20		0	1	1	4	12	88	537
21		0	1	1	3	13	87	539
22		0	0	1	2	11	89	538
23		0	0	1	2	10	90	538
BY MONTH		0	0	1	3	11	89	13797

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951-1973

MONTH OF AUGUST									
HOUR	VISIBILITY (MILES)					OBSERVATIONS			
	<1	<3	<6	<10	<20	>20			
0	0	1	1	4	11	89	581		
1	0	0	1	4	12	88	591		
2	0	0	1	4	11	89	591		
3	0	0	0	3	11	89	590		
4	0	0	1	4	11	89	591		
5	0	0	1	3	10	90	589		
6	0	0	0	2	12	88	587		
7	0	0	0	2	13	87	590		
8	0	0	0	2	11	89	590		
9	0	0	0	2	10	90	590		
10	0	0	0	1	9	91	589		
11	0	0	0	0	7	93	591		
12	0	0	0	1	8	92	590		
13	0	0	0	1	8	92	591		
14	0	0	0	1	9	91	589		
15	0	0	1	2	9	91	590		
16	0	0	0	1	9	91	590		
17	0	0	1	2	8	92	572		
18	0	0	1	2	9	91	560		
19	0	0	1	3	12	88	560		
20	0	0	1	2	11	89	559		
21	0	0	1	3	11	89	560		
22	0	0	0	3	12	88	560		
23	0	0	1	3	13	87	558		
BY MONTH	0	0	0	2	10	90	13949		



TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER									
HOUR	VISIBILITY (MILES)						>20	OBSERVATIONS	
	<1	<3	<6	<10	<20	>20			
0	0	0	1	3	12	88		602	
1	0	0	1	3	12	88		599	
2	0	0	1	4	13	87		596	
3	0	0	0	4	15	85		600	
4	0	1	1	4	14	86		600	
5	0	0	1	3	14	86		599	
6	0	0	1	3	11	89		599	
7	0	0	1	4	14	86		597	
8	0	0	1	3	14	86		597	
9	0	0	1	3	12	88		597	
10	0	0	1	3	10	90		598	
11	0	0	0	2	10	90		598	
12	0	0	0	2	9	91		599	
13	0	0	0	2	9	91		600	
14	0	0	1	2	9	91		599	
15	0	0	1	2	5	91		597	
16	0	1	1	2	8	92		599	
17	0	0	1	1	8	92		589	
18	0	0	1	2	11	89		581	
19	0	0	0	3	12	88		583	
20	0	0	0	3	12	88		581	
21	0	0	0	3	11	89		580	
22	0	0	0	3	11	89		582	
23	0	0	1	3	11	89		582	
BY MONTH	0	0	1	3	11	89		14254	

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	VISIBILITY (MILES)					OBSERVATIONS
	≤1	≤3	≤6	≤10	>20	
0	0	0	0	2	13	87
1	0	0	0	2	13	87
2	0	0	1	2	14	86
3	0	0	1	2	15	85
4	0	0	1	3	15	85
5	0	0	1	3	15	85
6	0	0	1	3	9	91
7	1	1	1	3	9	91
8	1	1	1	3	10	90
9	0	1	1	3	9	91
10	0	1	1	3	9	91
11	0	1	1	2	9	91
12	0	0	0	3	9	91
13	0	0	0	2	7	93
14	0	0	1	2	7	93
15	0	0	1	2	8	92
16	0	0	1	2	10	90
17	0	0	1	2	9	91
18	0	0	1	1	9	91
19	0	0	0	1	9	91
20	0	0	1	2	9	91
21	0	0	0	1	10	90
22	0	0	1	2	10	90
23	0	0	0	2	11	89
BY MONTH	0	0	1	2	10	90
						14840

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO

PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER		VISIBILITY (MILES)					OBSERVATIONS	
HOUR		≤1	≤3	≤6	≤10	≤20	>20	
0		0	1	1	5	11	89	596
1		0	1	1	5	13	87	600
2		1	1	2	4	13	88	600
3		1	1	2	4	12	88	599
4		0	1	1	5	13	87	600
5		0	0	1	5	12	88	600
6		1	1	1	4	9	91	599
7		0	0	1	4	9	91	599
8		1	1	2	4	9	91	596
9		0	0	1	3	10	90	595
10		0	1	1	3	10	90	599
11		0	1	1	3	9	91	597
12		0	0	1	2	9	91	597
13		0	1	2	4	10	90	597
14		0	1	2	4	10	90	596
15		1	1	2	4	9	91	597
16		1	1	2	3	9	91	596
17		0	1	1	3	8	92	589
18		0	0	0	4	9	91	576
19		0	0	0	3	8	92	576
20		0	0	1	3	9	91	574
21		0	1	1	4	11	89	575
22		1	1	2	5	12	88	575
23		1	1	1	4	13	88	576
BY MONTH		0	1	1	4	10	90	14208

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER									
HOUR	VISIBILITY (MILES)						OBSERVATIONS		
	<1	<3	<6	<10	<20	>20			
0	2	2	3	5	12	88	611		
1	2	3	3	6	11	89	613		
2	2	3	3	6	13	87	614		
3	2	3	4	7	14	86	614		
4	2	2	4	6	14	86	614		
5	2	3	4	7	14	86	613		
6	2	3	4	6	12	88	614		
7	2	3	4	5	12	88	614		
8	2	4	4	5	10	90	619		
9	2	3	5	7	12	88	617		
10	2	3	4	6	12	88	614		
11	3	4	5	7	12	88	617		
12	2	3	5	8	12	88	615		
13	2	3	4	7	13	87	617		
14	2	2	3	6	12	88	615		
15	1	3	4	7	13	87	617		
16	2	2	3	7	12	88	617		
17	1	2	3	6	12	88	599		
18	1	2	3	7	12	88	596		
19	1	2	2	7	12	88	596		
20	2	2	3	7	12	88	594		
21	2	2	2	6	13	87	592		
22	2	2	2	5	11	89	594		
23	2	2	2	5	11	89	593		
BY									
MONTH	2	3	3	8	12	88	14621		

TABLE X

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	CEILING (FEET ABOVE GROUND LEVEL)									OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	* >20000		
0	1	2	3	4	5	9	14	15	85	651	0
1	1	2	2	4	5	9	14	15	85	657	1
2	1	2	3	4	6	9	14	16	84	657	2
3	1	2	3	4	6	10	15	15	85	657	3
4	1	2	3	5	6	11	16	18	82	657	4
5	1	2	3	5	7	12	15	17	83	658	5
6	1	2	3	5	7	13	17	18	82	660	6
7	2	2	3	5	7	14	20	21	79	663	7
8	1	2	4	6	7	13	19	21	79	662	8
9	2	2	3	5	7	14	20	21	79	663	9
10	1	2	3	6	7	13	19	21	79	662	10
11	1	1	3	5	7	12	18	20	80	663	11
12	1	1	3	6	8	13	19	20	80	659	12
13	1	2	3	5	8	13	17	18	82	660	13
14	1	2	2	4	8	12	17	18	82	662	14
15	1	1	2	4	8	12	17	19	81	661	15
16	1	2	3	5	8	13	17	19	81	660	16
17	1	2	3	4	7	12	17	18	82	649	17
18	1	2	3	5	7	12	17	18	82	640	18
19	1	2	3	4	6	11	17	18	82	638	19
20	1	2	3	4	5	10	16	17	83	640	20
21	1	2	3	4	5	10	14	15	85	639	21
22	1	2	3	4	5	10	13	15	85	639	22
23	1	2	3	4	5	9	13	14	86	640	23
BY MONTH	1	2	3	5	7	11	17	18	82	15697	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	CEILING (FEET ABOVE GROUND LEVEL)									OBSERVATIONS
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	* >20000	
0	1	2	3	4	5	10	13	15	85	601
1	1	3	3	5	6	11	14	15	85	602
2	2	3	4	5	6	10	13	14	86	601
3	1	3	5	5	6	10	13	14	86	601
4	1	3	4	5	6	10	13	15	85	602
5	1	4	4	5	7	11	14	16	84	603
6	1	3	4	6	7	11	17	18	82	601
7	1	3	5	6	8	13	20	22	78	602
8	1	3	4	7	9	12	20	21	79	602
9	1	3	4	7	8	12	18	20	80	602
10	2	3	4	7	8	12	18	19	81	602
11	1	3	4	7	8	12	17	19	81	602
12	1	2	3	6	8	15	20	21	79	604
13	1	2	3	5	10	15	21	21	79	603
14	1	2	3	5	9	17	22	23	77	603
15	1	1	2	5	8	15	20	22	78	604
16	1	1	2	4	8	14	19	22	78	603
17	0	1	3	5	8	13	17	20	80	593
18	0	1	2	3	7	12	19	21	79	585
19	1	1	2	3	7	12	17	19	81	584
20	1	1	2	3	5	9	14	16	84	584
21	1	2	2	3	5	9	14	15	85	585
22	1	2	3	4	6	9	13	14	86	585
23	1	2	3	4	5	9	14	15	85	583
BY MONTH	1	2	3	5	7	12	17	18	82	14337

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF MARCH

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	≤1000	<2000	≤3000	<4000	≤5000	<10000	≤15000	<20000	* >20000	OBSERVATIONS	HOUR
0	0	0	1	2	3	9	14	15	85	663	0
1	0	0	1	2	3	10	15	16	84	665	1
2	0	0	1	2	4	10	14	16	84	663	2
3	0	1	1	3	4	10	15	16	84	664	3
4	1	1	2	3	5	10	15	16	84	664	4
5	1	1	2	3	5	10	14	16	84	664	5
6	1	1	2	3	5	11	16	17	83	662	6
7	0	1	2	3	5	11	17	19	81	663	7
8	0	1	2	3	4	10	16	18	82	662	8
9	1	1	2	3	6	10	16	18	82	663	9
10	0	1	3	4	6	10	16	18	82	663	10
11	1	1	2	4	6	11	16	18	82	661	11
12	0	1	3	5	6	13	19	22	78	665	12
13	0	1	2	4	7	14	19	21	79	663	13
14	0	1	2	5	7	15	19	22	78	663	14
15	0	1	2	4	7	15	19	21	79	663	15
16	1	2	2	4	7	15	20	23	77	665	16
17	1	1	2	4	6	14	19	22	78	647	17
18	0	1	1	2	5	12	18	20	80	636	18
19	0	1	1	2	4	10	16	18	82	639	19
20	0	1	1	2	3	9	14	16	84	639	20
21	0	0	1	2	3	9	13	15	85	640	21
22	0	0	0	2	4	9	13	15	85	638	22
23	0	0	0	2	4	8	13	15	85	639	23
BY MONTH	0	1	2	3	5	11	16	18	82	15754	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										* >20000	OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000					
0	0	0	0	0	1	3	7	8	92		640	0	
1	0	0	0	0	1	4	7	8	92		641	1	
2	0	0	0	0	1	4	8	9	91		641	2	
3	0	0	0	0	1	4	8	9	91		640	3	
4	0	0	0	0	1	4	8	8	92		641	4	
5	0	0	0	0	1	5	12	13	87		640	5	
6	0	0	0	1	2	7	13	15	85		642	6	
7	0	0	0	1	2	7	12	14	86		641	7	
8	0	0	1	1	2	6	11	13	87		642	8	
9	0	0	1	1	2	6	10	12	88		641	9	
10	0	0	0	1	2	5	11	12	88		641	10	
11	0	0	0	1	2	6	10	12	88		640	11	
12	0	0	0	1	3	8	12	14	86		640	12	
13	0	0	0	1	2	9	14	15	85		642	13	
14	0	0	0	1	2	10	13	15	85		641	14	
15	0	0	0	1	2	10	14	16	84		640	15	
16	0	0	0	0	2	9	15	17	83		641	16	
17	0	0	0	0	2	8	16	18	82		607	17	
18	0	0	0	1	2	8	15	17	83		599	18	
19	0	0	0	1	3	8	15	16	84		598	19	
20	0	0	0	0	1	6	10	12	88		599	20	
21	0	0	0	0	1	5	8	9	91		598	21	
22	0	0	0	1	1	4	8	9	91		598	22	
23	0	0	0	0	1	3	7	8	92		598	23	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET



TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF MAY

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	≤1000	<2000	≤3000	<4000	≤5000	≤10000	≤15000	≤20000	>20000	OBSERVATIONS	BY HOUR
0	0	0	0	0	1	5	9	11	89	682	0
1	0	0	0	0	0	5	8	9	91	682	1
2	0	0	0	0	1	5	9	10	90	684	2
3	0	0	0	0	1	5	8	9	91	684	3
4	0	0	0	0	1	4	9	9	91	697	4
5	0	0	0	0	1	6	10	11	89	697	5
6	0	0	0	0	1	7	13	14	86	695	6
7	0	0	0	1	1	6	12	13	87	695	7
8	0	0	0	1	1	5	10	11	89	696	8
9	0	0	1	1	1	5	8	10	90	694	9
10	0	0	0	1	1	6	10	12	88	696	10
11	0	0	0	1	2	6	10	11	89	695	11
12	0	0	0	1	1	7	11	12	88	695	12
13	0	0	0	1	1	9	12	14	86	695	13
14	0	0	0	0	2	11	13	15	85	695	14
15	0	0	0	0	2	12	16	18	82	694	15
16	0	0	0	0	2	12	16	18	82	695	16
17	0	0	0	0	2	11	15	18	82	661	17
18	0	0	0	1	1	8	13	16	84	654	18
19	0	0	0	1	1	9	13	16	84	654	19
20	0	0	0	1	1	7	11	12	88	640	20
21	0	0	0	0	1	6	10	11	89	638	21
22	0	0	0	0	1	6	10	11	89	639	22
23	0	0	0	0	1	5	9	10	90	638	23
BY MONTH	0	0	0	0	1	7	11	13	87	16295	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE A (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JUNE

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	* >20000	OBSERVATIONS	HOUR
0	0	0	1	1	2	10	14	14	86	620	0
1	0	0	1	1	2	9	12	12	88	641	1
2	0	0	0	1	1	8	11	12	88	640	2
3	0	0	0	1	1	7	10	10	90	643	3
4	0	0	0	1	1	7	11	12	88	673	4
5	0	0	1	1	1	7	11	12	88	672	5
6	0	0	0	1	1	8	11	12	88	669	6
7	0	0	0	1	2	7	11	12	88	570	7
8	0	0	1	1	1	6	10	11	89	668	8
9	0	0	1	1	2	6	8	9	91	670	9
10	0	1	1	1	1	5	8	9	91	669	10
11	0	0	1	1	2	5	8	9	91	671	11
12	0	0	1	1	2	6	11	11	89	673	12
13	0	0	1	1	2	10	13	13	87	671	13
14	0	0	0	1	1	15	19	20	80	670	14
15	0	0	1	1	2	18	21	22	78	669	15
16	0	0	1	1	2	18	22	22	78	672	16
17	0	0	0	1	2	18	22	22	78	660	17
18	0	0	0	1	3	19	24	24	76	633	18
19	0	0	0	1	2	18	22	23	77	631	19
20	0	0	0	0	2	19	23	24	76	602	20
21	0	0	0	1	2	15	19	19	81	602	21
22	0	0	0	1	1	12	16	16	84	601	22
23	0	0	0	1	1	11	14	14	86	603	23
BY MONTH	0	0	1	1	2	11	15	15	85	15593	

\*

NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF JULY

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000	* >20000	OBSERVATIONS	HOUR
0	0	0	1	1	3	19	29	30	70	659	0
1	0	0	1	2	4	19	28	29	71	684	1
2	0	0	1	1	4	18	28	28	72	684	2
3	0	1	1	2	4	16	25	26	74	684	3
4	0	1	1	2	3	14	23	24	76	695	4
5	0	1	1	2	4	15	26	26	74	694	5
6	0	1	1	2	3	12	25	26	74	693	6
7	0	0	1	2	3	12	22	23	77	693	7
8	0	1	1	2	3	10	18	19	81	693	8
9	0	1	1	2	3	8	17	18	82	694	9
10	0	1	1	3	4	10	17	18	82	694	10
11	0	1	1	3	4	10	17	18	82	694	11
12	0	1	1	2	4	11	18	19	81	696	12
13	0	0	1	2	5	20	25	26	74	695	13
14	0	0	0	1	5	20	34	34	66	693	14
15	0	0	1	1	5	30	36	37	63	693	15
16	0	0	1	1	5	32	38	39	61	695	16
17	0	0	0	1	4	28	35	35	65	680	17
18	0	0	0	1	4	25	34	35	65	652	18
19	0	0	0	2	5	25	35	35	65	650	19
20	0	0	0	1	5	24	34	34	66	640	20
21	0	1	1	2	5	22	29	30	70	642	21
22	0	0	1	2	5	20	30	31	69	642	22
23	0	1	1	2	5	20	32	32	68	641	23
BY MONTH	0	0	1	2	4	19	27	28	72	16280	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000	* >20000	OBSERVATIONS	HOUR
0	0	0	1	1	3	15	26	27	73	687	0
1	0	0	0	2	3	14	26	26	74	697	1
2	0	0	1	1	3	12	24	25	75	697	2
3	0	0	1	2	3	12	22	22	76	696	3
4	0	0	1	2	4	11	20	20	80	697	4
5	0	1	2	3	3	12	23	23	77	695	5
6	1	1	1	2	3	11	22	23	77	693	6
7	1	1	1	2	3	11	23	23	77	696	7
8	0	1	1	2	3	9	20	21	79	696	8
9	0	0	1	2	2	8	17	18	82	596	9
10	0	0	1	2	3	7	15	16	84	695	10
11	0	0	1	2	3	7	17	17	83	697	11
12	0	1	1	2	4	11	19	19	81	696	12
13	0	0	1	2	6	19	25	25	75	697	13
14	0	0	1	2	5	25	30	31	69	695	14
15	0	0	0	2	6	30	37	38	62	696	15
16	0	0	0	1	5	27	35	36	64	696	16
17	0	0	0	1	5	24	33	34	66	679	17
18	0	0	0	1	3	20	32	33	67	666	18
19	0	0	0	1	5	24	33	33	67	666	19
20	0	0	0	1	5	21	31	32	68	665	20
21	0	0	0	1	4	19	29	30	70	666	21
22	0	0	1	1	4	18	27	28	72	666	22
23	0	0	1	1	4	17	28	29	71	664	23
BY MONTH	0	0	1	2	4	16	26	26	74	16494	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

## CEILING (FEET ABOVE GROUND LEVEL)

HOUR	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	* >20000	OBSERVATIONS	W HOUR
0	0	1	1	2	4	11	18	18	82	703	0
1	0	0	2	3	3	9	17	18	82	700	1
2	0	1	1	2	4	10	18	18	82	697	2
3	0	1	2	3	4	11	17	17	83	701	3
4	0	1	2	4	5	12	19	19	81	701	4
5	0	1	2	4	5	12	19	19	81	701	5
6	0	1	2	4	6	13	20	20	80	699	6
7	0	1	2	4	6	13	21	21	79	697	7
8	1	1	3	4	6	12	20	21	79	697	8
9	0	1	2	4	6	11	17	18	82	697	9
10	0	1	2	5	6	10	17	17	83	698	10
11	0	1	2	4	7	12	17	17	83	698	11
12	0	0	2	4	6	13	17	17	83	700	12
13	0	0	1	3	6	15	19	19	81	701	13
14	0	0	1	3	6	18	23	23	77	700	14
15	0	0	1	2	5	20	25	26	74	698	15
16	0	1	1	2	5	16	22	22	78	700	16
17	0	1	1	3	6	16	21	22	78	690	17
18	0	0	1	2	5	15	21	21	79	681	18
19	0	0	1	2	4	16	21	22	78	683	19
20	0	0	1	2	4	13	19	19	81	681	20
21	0	0	1	2	4	13	17	17	83	680	21
22	0	0	1	2	4	13	18	18	82	682	22
23	0	0	0	2	4	11	16	16	84	683	23
BY MONTH	0	1	2	3	5	13	19	19	81	16668	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

## CEILING (FEET ABOVE GROUND LEVEL)

HOUR	* >20000										OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000			
0	0	0	2	3	5	9	11	11	89	734	0	
1	0	1	2	3	5	9	12	13	87	734	1	
2	0	1	2	3	5	8	10	11	89	736	2	
3	0	1	2	3	5	9	11	11	89	735	3	
4	1	1	2	4	5	8	10	11	89	735	4	
5	1	1	3	4	6	9	11	12	88	734	5	
6	1	1	3	5	7	10	13	14	86	738	6	
7	1	2	3	5	7	11	15	15	85	736	7	
8	1	2	3	5	7	10	14	14	86	737	8	
9	0	1	2	5	6	10	12	13	87	737	9	
10	0	1	2	5	6	10	12	13	87	734	10	
11	0	1	2	4	6	10	13	14	86	738	11	
12	0	1	1	4	6	10	12	13	87	733	12	
13	0	0	1	3	6	11	13	14	86	731	13	
14	0	0	1	3	6	12	14	15	85	729	14	
15	0	0	1	3	5	11	13	14	86	733	15	
16	0	0	1	3	4	9	11	11	89	730	16	
17	0	0	1	3	4	9	11	12	88	711	17	
18	0	0	1	3	4	9	11	12	88	709	18	
19	0	0	1	3	4	8	10	10	90	710	19	
20	0	0	1	3	4	8	10	11	89	709	20	
21	0	0	1	3	4	8	10	11	89	711	21	
22	0	0	1	3	5	7	11	11	89	709	22	
23	0	0	2	3	5	8	11	11	89	710	23	
BY MONTH	0	1	2	4	5	9	12	12	88	17453		

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
BY MONTH AND BY HOUR (IN PERCENT)  
A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	CEILING (FEET ABOVE GROUND LEVEL)								OBSERVATIONS	HOUR
	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000		
0	1	2	2	4	6	8	12	13	695	0
1	1	2	2	3	5	8	12	13	697	1
2	1	2	3	4	5	8	12	12	697	2
3	1	2	2	4	5	8	12	12	696	3
4	1	3	3	5	5	8	12	13	697	4
5	1	3	3	5	6	8	11	12	700	5
6	1	2	3	5	6	9	14	14	696	6
7	1	2	4	5	7	11	16	18	696	7
8	1	2	4	6	8	12	16	18	693	8
9	1	2	4	6	7	11	15	16	696	9
10	1	2	4	5	6	10	14	15	696	10
11	1	1	3	4	5	10	14	15	697	11
12	0	0	2	3	5	9	13	14	694	12
13	0	1	2	3	5	9	13	14	694	13
14	0	1	2	4	6	11	15	16	693	14
15	1	1	2	3	6	10	15	16	694	15
16	0	1	2	3	5	10	16	17	693	16
17	0	1	2	3	5	9	14	15	690	17
18	0	1	2	3	4	8	14	15	674	18
19	0	2	2	3	4	8	13	14	674	19
20	1	1	2	3	5	8	14	14	672	20
21	1	1	2	3	5	8	14	15	673	21
22	1	2	2	4	6	8	13	14	672	22
23	1	2	2	4	6	8	12	13	677	23
BY MONTH	1	2	3	4	6	9	14	14	16556	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	CEILING (FEET ABOVE GROUND LEVEL)								* >20000	OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000			
0	2	3	4	6	8	14	17	19	81	697	0
1	2	3	5	6	8	12	16	16	84	699	1
2	2	3	4	6	8	12	16	16	84	700	2
3	3	4	5	7	9	13	17	18	82	700	3
4	3	3	5	7	9	14	17	18	82	700	4
5	3	3	4	7	9	14	17	18	82	701	5
6	3	3	4	7	10	15	19	19	81	700	6
7	2	3	4	8	11	17	22	22	78	700	7
8	2	4	5	8	10	17	23	24	76	712	8
9	3	4	5	8	10	17	24	25	75	710	9
10	2	5	6	8	10	17	23	24	76	709	10
11	3	4	5	8	10	16	21	22	78	712	11
12	3	4	6	9	11	16	21	22	78	707	12
13	2	4	5	8	10	15	20	20	80	709	13
14	2	3	5	8	11	17	21	21	79	707	14
15	1	3	5	8	11	16	21	22	78	709	15
16	2	3	5	8	10	16	21	21	79	708	16
17	1	2	4	7	9	15	22	22	78	685	17
18	2	3	4	6	7	13	19	19	81	678	18
19	1	3	4	6	8	12	17	17	83	678	19
20	1	3	4	5	8	13	17	18	82	676	20
21	1	2	4	6	7	12	17	17	83	674	21
22	1	3	4	6	7	12	17	18	82	676	22
23	1	3	4	6	8	13	18	19	81	679	23
BY MONTH	2	3	5	7	9	15	19	20	80	16726	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET



#### LITERATURE CITED

1. Hoidale, M. M. and B. J. Gee, January 1971, "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 2, Temperature, Relative Humidity, Dew Point, Station Pressure, Density, Clouds, Hydrometeors, and Lithometeors," DR-590, Meteorological Support Division, Atmospheric Sciences Laboratory, White Sands Missile Range, New Mexico. AD 883 071
2. Hoidale, M. M., B. J. Gee, M. B. Seagraves and G. W. Harmon, August 1968, "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 3, Upper Air Data: White Sands Desert Site," DR-327, Meteorological Support Division, Environmental Sciences Department, U. S. Army Electronics Research and Development Activity, White Sands Missile Range, New Mexico. AD 679 043
3. Hoidale, M. M., B. J. Richart and T. B. Hudson, May 1971, "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 3, Upper Air Data: Apache Site," DR-621, Meteorological Support Division, Atmospheric Sciences Laboratory, White Sands Missile Range, New Mexico.
4. Hoidale, M. M., B. J. Gee and M. A. Seagraves, November 1968, "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 3, Upper Air Data: Stallion Site," DR-323, Meteorological Support Division, Environmental Sciences Department, U. S. Army Electronics Research and Development Activity, White Sands Missile Range, New Mexico. AD 844 656
5. Hoidale, M. M., B. J. Gee, M. A. Seagraves and G. W. Harmon, 1968 "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 3, Upper Air Data: Small Missile Range," DR-324, Meteorological Support Division, Environmental Sciences Department, U. S. Army Electronics Research and Development Activity, White Sands Missile Range, New Mexico. AD 857 333
6. Hoidale, M. M., B. J. Gee and G. W. Harmon, May 1968, "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 3, Upper Air Data: Holloman Site," DR-321, Meteorological Support Division, Environmental Sciences Department, U. S. Army Electronics Research and Development Activity, White Sands Missile Range, New Mexico. AD 672 063
7. Hoidale, M. M., R. L. Russo and L. Newman, May 1973, "Atmospheric Structure, White Sands Missile Range, New Mexico, Part 3, Upper Air Data: Jallen Site," DR-776, Meteorological Support Division, Environmental Sciences Department, U. S. Army Electronics Research and Development Activity, White Sands Missile Range, New Mexico.